

**Supply, Installation, Testing and Commissioning of
Video Conferencing system and digital boards/display
at
RETTP, Aacharpura, Bhopal**



IREL (India) Limited

(A Government of India Undertaking)

Plot No.,1207, Veer Savarkar Marg, ECIL Building,
Prabhadevi, Mumbai-400028,
Tel No : 24220230/24211630
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CIN No. U15100MH1950GOI008187

Schedule Of Tender

Name of Work	Supply, Installation, testing and commissioning of Video Conferencing system and digital boards/display at RETTP, Aacharpura, Bhopal
Type of Tender	Open Tender through GeM, Single Stage Two Bid System Two cover System
Tendering Mode: GEM Portal	Public tender (Two cover System) <input type="checkbox"/> Pre-Qualification Bid <input type="checkbox"/> Financial Bid
Cost of Tender Document	NIL
Earnest Money Deposit (EMD)	38,500/-
Date & time of Starting of bid	24.02.2023
Date of Pre-bid meeting	03.03.2023, 15.00 hrs (Through VC) https://meet.google.com/ock-hueg-yge
Date of closing of bid for submission of Bids	20.03.2023, 15.00 hrs
Date & time of opening of Cover 1	20.03.2023, 15.30 hrs
Date & time of opening of Financial Bid	Shall be informed separately to the eligible bidders
Declaration of Successful Bidder	To be decided
Issuance of Letter of Intent (LoI)/Work order	To be decided
Estimated Cost	Rs. 38.47 lakhs
Validity of tender	90 days from bid due date
SD/PBG	3% of the contract value
Contact details of tender inviting authority	Shri S Achariya, DGM – Technical (I/c Purchase) IREL (India) Limited Plot No. 1207, V.S.Marg, ECIL Building, Opp. Siddhi Vinayak Temple, Prabhadevi, Mumbai-400 028 Email: purchase-ho@irel.co.in ; v.chandrasekhar@irel.co.in , nirdesh.sharma@irel.co.in Phone 022- 24211630 (Ext. No. 248) 022-24316589

DISCLAIMER

The information contained in this tender document (the “**TENDER**”) or subsequently provided to Bidder(s), whether verbally or in documentary or any other form, by or on behalf of IREL or any of its employees, is provided to Bidder(s) on the terms and conditions set out in this TENDER and such other terms and conditions subject to which such information is provided. The information provided is only for the information and reference of the Bidders.

This TENDER is not an agreement and is neither an offer by IREL to the prospective Bidder(s) or any other person. The purpose of this TENDER is to provide interested parties with information that may be useful to them in the formulation of their bid for participation in this TENDER. This TENDER includes statements, which reflect various assumptions and assessments arrived at by IREL in relation to the tender work. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This TENDER may not be appropriate for all persons, and it is not possible for IREL, or its employees to consider the investment objectives, financial situation and particular needs of each party who reads or uses this TENDER. The assumptions, assessments, statements and information contained in this TENDER may not be complete, accurate, adequate or correct. Each Bidder should therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this TENDER and obtain independent advice from appropriate sources.

Information provided in this TENDER to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. IREL accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

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The issue of this TENDER does not imply that IREL is bound to select and short-list qualified Bids for Price Bid stage or to appoint the Selected Bidder for the intended work, and IREL reserves the right to reject all or any of the Bids without assigning any reasons whatsoever.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by IREL or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and IREL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

TABLE OF CONTENTS:

S. No.	Contents	Page No.
1.	Introduction	5
2.	Scope of Work	6
3.	Mode of bidding	7
4.	Pre-Qualification Criteria	8
5.	Technical Specification	9-13
6.	Bill of Quantity	14
7.	Special Terms and Condition	15-17
8.	General Conditions of the Contract	18-26
9.	Annexure – I Declaration of Non-Blacklisting	27
10.	Annexure – II Certificate from practicing Chartered Accountant for eligible works	28
11.	Annexure – III Particulars of bidder	29
12.	Annexure – IV Required details of the tender document	30
13.	Annexure – V EMD Declaration	31
14.	Annexure – VI Performa for Bank Guarantee for Earnest Money Deposit	32
15.	Annexure – VII Performa for BG towards Security Deposit/ Performance Bank Guarantee	33-34

1. Introduction

IREL (India) Limited (the “IREL”), a Mini-Ratna Category-I company, is a public sector enterprise of the Government of India under the administrative control of the Department of Atomic Energy. The company is engaged in mining and separation of atomic minerals and produces different rare earth compounds. The operating units of the company are located at Chavara, Kerala; Manavalakurichi, Tamil Nadu; Chatrapur, Odisha and Aluva, Kerala. The corporate office is located at Mumbai.

IREL in the process of setting up of the futuristic concept of Rare Earth and Titanium Theme Park at Bhopal, Madhya Pradesh.

The work envisaged indicated under scope of work, is for setting up video conferencing facility including both hard ware and software system and interactive digital boards at the project site of Rare Earth Titanium Theme Park (RETTP) located at IREL (India) Limited, Acharpura, Bhopal, Madhya Pradesh.

2. Scope of Work

Supply, Installation, Testing and Commissioning (SITC), warranty service of all equipment at IREL, Bhopal (Pin -462030). The broad scope of work undertaken by the bidders shall include but not limited to the following for completion of the specified work in all respect.

1. The bidder must deliver all the products as mentioned below as per the specification mentioned under the BoQ: -
 - i. Interactive Flat Panel
 - ii. Large Format Display
 - iii. HDMI Switcher
 - iv. PTZ Camera with Look at Me feature compatible.
 - v. Motorized Cable Cubby
 - vi. Chairman Unit Microphone
 - vii. Delegate Unit Microphone
 - viii. Controller
 - ix. Integrated Processor with Controller
 - x. Amplifier
 - xi. Wall Mount Speaker
 - xii. Digital Signal Processor
 - xiii. Video Conferencing System
 - xiv. Rack
 - xv. Cables, Connectors other items essentials for the above- in lot to meet the total requirement.
2. The bidder must ensure the safe delivery and installation and commissioning of the VC system and other accessories of all the equipment at Rare Earth & Titanium Theme Park (RETTP), Acharpura Bhopal, Madhya Pradesh.
3. All the accessories needed at the time of installation shall be under the scope of successful bidder for completion of the activity in all respect.
4. Audio and Video Conferencing (VC) Solution has to be installed in the conference room. Display units to be installed in the designated halls/rooms. The bidder has to ensure smooth functioning and the solution installed.
5. The VC system should be equipped with Look at Me/audio tracking feature. So that whenever participants switch on the mic to speak the camera zoom and focus on to the speaker.
6. The work must be carried out on turnkey basis with complete supply, installation testing & commissioning (SITC) basis.

3. Mode of bidding

The tender bids duly filled in all aspects and uploaded at GEM Portal on or before the scheduled time and date as mentioned in the tender enquiry will be considered for evaluation.

The Bids shall be prepared in two parts viz. PQ cum Technical Bid (Part 1) and Price Bid (Part 2).

Technical bid(Part 1) and Price Bid (Part 2)shall be submitted be through GEM Portal. Bids submitted GEM portal shall only be considered.

Technical Bid will be opened at the first instance and evaluated by IREL's concerned authority. In the second stage, financial bids of only the technically eligible offers will be opened for further evaluation and ranking before awarding the contract.

PQ cum Techno-commercial bid (Part 1)

It contains documents in support of eligibility criteria, self-attested tender document and any other document specifically specified in this tender document.

i.	The complete Qualifying Data as required in Prequalification Criteria (PQ)
ii.	Duly filled Tender documents, all Annexures & Undertaking
iii.	Any other technical details/documents etc. required to be submitted by the bidder as contained in the bid document

Part 2 shall contain Price Bid (to be submitted electronically).

This part shall contain only Schedule of prices duly filled in as per the Bid Proposal Schedules. No physical submission of hard copy is permitted.

Method of selection:

Part I of the bid will be evaluated and bidders meeting the PQ criteria and other tender conditions will be qualified as eligible bidders for opening of the price bids. The price bids opened subsequently will be scrutinized for responsiveness and IREL shall consider placement of order on the qualified bidder, whose offer shall be overall lowest. However, IREL reserves the right to accept or reject all or any tender without assigning any reasons and does not bind itself to accept the lowest offer.

Note: To assist in the examination of documents submitted by the bidder in support of eligibility criteria (PQ), IREL may, at its discretion, ask the Bidder for clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

4. PRE-QUALIFICATION (PQ) CRITERIA

Bidder should meet the PQ criteria as mentioned under for further consideration of their bid. Bidder shall upload their PQ details and other details mentioned in the bid. Bidder shall fulfill the following to pre-qualify for the bid.

S.No.	PQ requirement	Documents required (As applicable)
1	<p>Technical Competency:</p> <p>Party should have experience in successful execution of similar work (s) as detailed below in any Central/ State Government, Public Sector Undertaking(s) or private organizations during last (7) seven years (ie should not be earlier than Jan 2016). Contract values should be either of the following-</p> <p>(i) One Similar Work in a single order of costing not less INR 30.80 lakh OR</p> <p>(ii) Two Similar Works in two (2) orders of each not costing less than INR 19.30 lakh OR</p> <p>(iii) Three Similar Works in three (3) orders of each not costing less than INR 15.40 lakh</p> <p>Definition of Similar Work(s): Similar Work experience includes (any one) in supply and installation of Video Conference system in Lecture Hall/ Auditorium/ Language Lab/ Classrooms facility/ Board rooms/Office etc.</p>	<ul style="list-style-type: none"> • Completion certificate indicating the details of the Work Order(s) along with copies of the Work Order(s). <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • The bidder along with copies of the Work Order(s) may submit certificate(s) from practicing chartered accountants stating the payments received and works completed, as the case may be, along with declaration on the letter head of the Bidder in respect of the works specified in Pre-Qualification Criteria.
2	<p>Financial Capability:</p> <p>The Bidder should have a minimum average annual turnover of INR 11.60 lakh over the last three audited financial years (i.e., FY 2019-20, FY 2020-21, FY 2021-22).</p>	<ul style="list-style-type: none"> • Extracts from the audited balance sheet and Profit & Loss Account; and/or Certificate from practicing Chartered Accountant for FY 2019-20, FY 2020-21, FY 2021-22 is to be submitted. Duly signed by bidder.
3	<p>Blacklisting:</p> <p>The Bidder should not have been blacklisted as on the bid submission date by any Public Sector Undertaking (PSU) / Central or State Government in India / Central or State Government undertaking.</p>	<p>A self-certified letter that the bidder has not been blacklisted by an Authorized Signatory on the company's original letter head with signature and seal</p>
4	<p>Bidder should be OEM or authorized representative/dealer for Display, Audio system, Controller, Amplifier and Camera for which they have submitted the bid.</p>	<p>Bidder needs to submit the Letter of Authorization from respective OEMs in support of supply and providing requisite warranty service after installation.</p>

NB: Pre-qualification shall be carried out based on the documents submitted by the bidders for past performance, technical and financial capability, and shall be subject to verification, if required.

5. TECHNICAL SPECIFICATIONS

S. No	Particulars	Unit	Qty	Compliance Remarks Yes/No, offered make
1.	<p>Supplying, Installation, testing & commissioning (SITC) of Interactive Digital Board Screen Size : 86" or Higher; Resolution : 3840 x 2160 (UHD); Brightness :Minimum 350cd/m2 with protection Glass : Contrast Ratio : 1,100:1 or Higher; Viewing Angle(H x V) : 178 x 178: Surface Treatment : Anti-glare treatment; Min Input ports : HDMI-3,USB(3.0)-3,USB-(2,0)-2,OPS Slot-1,RGB-1,LAN-1,SPDIF-1 or Higher ; Min Output Ports : HDMI -1,Audio-1(Audio out to connect additional Speakers if required); External Control : Rs-232; Built in Touch type : IR spread / PCap / Incell / Inglass ; Touch Accuracy :±1.5mm or less; Air Gap Between LCD Module & Glass : Minimum 1 mm or less ; Protection Glass Thickness :4T (Anti-Glare); Operating System Support : Windows 7/8/10/Windows XP/Linux/Mac/Android; (Windows XP/Linux/Mac Support one point touch) : Multi touch point : Min 20 Points or Higher; Google CTS :Compatible/Approved to smooth interface; Interactive Features: White Board ,Writing, Pen, Palm Eraser ,Save, Screen Capture, Storage, Tool Bar,; Built in Standard OS : Android 8.0 or better; Panel System on Chip :Internal Memory (16GB),(Hisi 811, Dual core A73+Dual core A53), DDR(3GB), Wi-Fi, Media share : Screen Share/Mira cast to Connect TAB/Mobile, Web Browser; HEVC Decoder : For zoomed in various documents, images,& Videos can be displayed without any distortion; PCB Protective Coating Conformal Coating on PCB to prevent from Humidity , Dust & Iron Particles ; Power Supply : 100-240V~, 50/60Hz; Power Consumption (Typ.) : 265 W or less; Built in Audio Power : 22W(12W x 2) or higher ; Accessory : Remote Controller(include battery), Power Cord, Touch Pen(2); Installation type :Wall mount</p> <p>Make- LG/ ViewSonic/Vivitek or equivalent</p>	Nos	1	
2.	<p>SITC of Interactive Digital Board Screen Size : 65" or Higher; Resolution : 3840 x 2160 (UHD); Brightness :Minimum 350cd/m2 with protection Glass : Contrast Ratio : 1,100:1 or Higher; Viewing Angle(H x V) : 178 x 178: Surface Treatment : Anti-glare treatment; Min Input ports : HDMI-3,USB(3.0)-3,USB-(2,0)-2,OPS Slot-1,RGB-1,LAN-1,SPDIF-1 or Higher ; Min Output Ports : HDMI -1,Audio-1(Audio out to connect additional Speakers if required); External Control : Rs-232; Built in Touch type : IR spread / PCap / Incell / Inglass ; Touch Accuracy :±1.5mm or less; Air Gap Between LCD Module & Glass : Minimum 1 mm or less ; Protection Glass Thickness :4T (Anti-Glare); Operating System Support : Windows 7/8/10/Windows XP/Linux/Mac/Android; (Windows XP/Linux/Mac Support one point touch) : Multi touch point : Min 20 Points or Higher; Google CTS :Compatible/Approved to smooth interface; Interactive Features: White Board ,Writing, Pen,</p>	No.s	3	

	<p>Palm Eraser ,Save, Screen Capture, Storage, Tool Bar, Air Class etc.; Built in Standard OS : Android 8.0 or better; Panel System on Chip :Internal Memory (16GB),(Hisi 811, Dual core A73+Dual core A53), DDR(3GB), Wi-Fi, Power Indicator, or higher; Media share : Screen Share/Mira cast to Connect TAB/Mobile, Web Browser; HEVC Decoder : For zoomed in various documents, images,& Videos can be displayed without any distortion; PCB Protective Coating Conformal Coating on PCB to prevent from Humidity , Dust & Iron Particles ; Power Supply : 100-240V~, 50/60Hz; Power Consumption (Typ.) : 265 W or less; Built in Audio Power : 22W(12W x 2) or higher ; Accessory : Remote Controller(include battery), Power Cord, Touch Pen(2); Installation type :Wall mount</p> <p>Make- LG/ ViewSonic/Vivitek or equivalent</p>			
3.	<p>SITC of Large Format Display Size- 55" ,Resolution 3,840 X 2,160 (UHD) , Backlight Unit Type Direct, Brightness (nit) 330, Audio Output: 10W + 10W Speaker ,System : 2.0 ch; Broadcasting System : TV Reception DVB-T2/C/S2 ; Interface Side : HDMI In 3 (2.0), Headphone Out (Phone Jack Type), Rear: USB (2.0), RF In (2), Digital Audio Out (Optical), External Speaker Out(3.5mm phone jack), RJ45 (Usage Purpose, LAN); Power Type : Built-In Power.</p> <p>Make- LG/ ViewSonic/Vivitek or equivalent</p>	No.s	1	
4.	<p>SITC of HDMI Switcher with 4 Nos. Of HDMI Input and 4 Nos HDMI Output.</p> <p>Make- Kramer/Aten/AMX or equivalent</p>	No.s	1	
5.	<p>SITC of Pan Tilt Zoom(PTZ) Camera USB based : Yes; Zoom : Minimum 20X Optical Zoom; Iris: f=5.57~110mm ; F1.6 ~ F3.5;Viewing Angle:3.3° (tele) –54.7° Wide ;Sensor:1 /2.8inch or better CMOS sensor; Pixels:2.07 Mega Pixel ; Video Format: SDI Video Formats: 1080P60/50/30/25/59.94/29.97 ; 1080I60/50/59.94. 720P / 50/ 30 / 25 /59.94/29.97; Minimum illumination:0.5 Lux ; DNR:2D & 3D DNR; White Balance :Auto/ Manual/One push 3000K / 3500K / 4000K / 4500K / 5000K / 5500K / 6000K / 6500K /7000K; Electronic Shutter : Auto/Manual; Focus : Should be Auto/Manual/One Push; BLC:ON/Off; WDR : Off/Dynamic level adjustment; Video Adjustment: Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve; SNR : >55 dB; Interface:: USB 3.0 x1, DVi/HDMI x1, , LAN x1, RS232 x1; Video Compression Format:H.265/H.264 ; Control Protocol: VISCA/PELCO-D/Pelco-P; Baud Rate : 11520 / 9600 / 4800 / 2400 ; LAN Port :Yes; Network Protocol: RTSP/RTMP/ ONVIF, GB/T28181; Pan Rotation:+ 170° Tilt Rotation :-30°~+90° ; Pan Control Speed: 0.1~100°/second ;Tilt Control Speed : 0.1~45°/second ;Preset Speed: Pan: 100°/second, Tilt 45°/second ;Preset Number:255 preset</p> <p>Make- ATDSC/SONY/Vaddio or equivalent</p>	No.s	1	
6.	<p>SITC of Cable Cubby box with HDMI, LAN, USB and power.</p>	No.s	1	

	Make- Kramer/Milestone/Extron or equivalent			
7.	<p>SITC of Chairman Unit Microphone: Frequency Response: 40Hz-16KHz; Sensitivity: -44 dB:2dB ; Length Of Gooseneck: 420mm; Supports Discussion & Video; Chairman With Priority Button; Connectivity : Daisy Chain connection with Loop In Loop Out; Dimension: 130x55x105(mm) ; Installation Dimension: 105x40(mm)-One for Chairman ad</p> <p>Make- ATDSC/ Work Pro/ Clockaudio or equivalent</p>	No.s	1	
8.	<p>SITC of Delegate Unit Microphone: Frequency Response: 40Hz-16KHz; Sensitivity: -44 dB:2dB ; Length Of Gooseneck: 420mm; Supports Discussion & Video; Connectivity : Daisy Chain connection with Loop In Loop Out; Dimension: 130x55x105(mm) ; Installation Dimension: 105x40(mm)</p> <p>Make- ATDSC/ Work Pro/ Clockaudio or equivalent</p>	No.s	16	
9.	<p>SITC of Audio Controller : The main unit of the portable digital conference system can support 60 units of Chairman & Delegate microphone. ; It support 250 Microphones with extension power unit.; Equipped with four groups or 8p-DIN interface for system connecting.; Modes : Discuss mode, Free mode, FIFO mode (1-9),Limit mode (1-9) ; 9 Microphones can be on at a time. First In First Out ; The working mode is displayed on LCD screen. ; Look At Me – Speaker tracking compatible with camera and processor; Connection: 8PIN x 3 plugs for Microphone ; 8 PIN x1 socket for system connection; RCA : 4 x RCA Port; RJ 45 x 1; XLR Port x 1</p> <p>Make- ATDSC/ Work Pro/ Clockaudio or equivalent</p>	No.s	1	
10.	<p>SITC of integrated Look At Me Processor with Audio controller Integrated Look At Me controller-Should have Built-in video switching matrix having 4 HDMI inputs& 1 HDMI output. , Should have 256 video camera auto-track control points, Should support Multi-machine cascade. It should support Pelco-D and VISCA protocol (Pelco-D, Baud Rate: 9600, VISCA, Baud Rate: 9600). , The processor should communicate with the equipment by RS232 interface, with computer or video switching matrix. It should support High speed shifting with the camera which shall follow the location for last opening of all speaking representative, when the microphone which opened last was closed, the camera should follow back the last following spot, and when all the microphone are closed, the camera should automatically moves back to the standby position. When its working without the computer, it can be set through the controller itself with the button on board, and should also set by the IR controller. It should consist of power switch, Camera number selecting button (VIDICON 1-8), Send the camera output to the related display screen through pressing this button, Processor power indicative lamp, , Busy indicative lamp, Camera selecting indicative lamp, Camera zoom setting, Camera direction set button (up, down, left, right), Save button (save the pre-setting spot), USB connection interface to PC, and for connecting to another video matrix, Should have the port to connect it computer to setup the software function. It should control pan and tilt move directly from software., It should have Data port to connect to</p>	No.s	1	

	the main conference unit, These inputs should get connected with the camera and should support 4 cameras. Should have HDMI Out to show camera output directly to a display Make- ATDSC/ Work Pro/ Clockaudio or equivalent			
11.	SITC of Amplifier: Power Output 245W Max., 175W RMS at 10% THD, 110W RMS at 5% THD, Output Regulation 2 dB, no load to full load at 1kHz, Input Channels 5 X Mic. 0.65mV/4.7k Ohms, 2 X Aux 100mV/470k Ohms, Frequency Response 50-15,000Hz \pm 3dB, Signal to Noise Ratio 60dB, Tone Controls Bass \pm 10dB at 100Hz, Treble \pm 10dB at 10KHz, Outputs Line: 200mV/600 Ohms, 1V/1k Ohms, Speaker Output 4 Ohms, 8 Ohms & 100V, Digital Player MP3 Player with USB, SD Card & Bluetooth, Power Supply AC: 220-240V 50/60Hz, DC: 12V, Power Consumption : AC : 250VA DC : 4A, Power Consumption AC : 250VA DC : 4A, Consist of USB Pen drive Port, SD Card Plug and Play, Compatible with Radio & Bluetooth, EQ & Recording, 5 Channels Microphone Inputs, 2 Channels Aux Inputs, 1 Channel Line Output. 100V Constant Voltage Output and 4 Ω 8 Ω 16 Ω Resistance Output. Make- ATDSC/ Work Pro/ EAW or equivalent	No.s	1	
12.	SITC of Speaker: Should have Two-way speaker configuration, Power handling: 200W peak (50W RMS) or more, 5.25" woofer and 1/2" titanium-laminate tweeter or better; Frequency range (-10 dB): 80 Hz – 20kHz or better; Frequency response (+/-3 dB): 100 Hz – 18kHz or better; Power Capacity: 150W or more; Sensitivity: 87 dB SPL, 1 W 1 m (3.3 ft) or better; Maximum SPL: 108 dB continuous, 114 dB peak or more; Directivity Factor (Q): 6.0 or better; Directivity Index (DI): 7.8 dB or better; Nominal Impedance: 8 ohms or better; Crossover Frequency: 4.2 kHz or more; Overload Protection LF Driver: 135mm (5.25 in) low frequency loudspeaker or better; HF Driver: 19 mm (.75 in) polycarbonate dome tweeter or better; Enclosure Material: Polypropylene Structural Foam Should have All-weather construction for the outdoors; Easy setup; Input Connectors: Spring – loaded terminals Make : ATDSC/ Work Pro/ EAW or equivalent	Pair	3	
13.	SITC of Digital Signal Processor(DSP) It should be equipped with reference-quality mic preamps that should spec in at 0.0007% THD, the DSP should be excellent for live streaming, video conferencing or recording applications specially in PC/Laptop The DSP should includes 2 channels of reference-quality mic preamps, 2 direct outputs for recording, a stereo input channel, a dedicated media channel, Bluetooth wireless input and high quality digital effects. It should also have features like 48 volt phantom power, dual selectable control room outputs, built-in stereo compressor, an on-board selectable high impedance preamp equalized for guitar, 3-band EQ per channel with bypass, signal/clip indicators, and a stereo master LED meter bridge. The Bluetooth should allow seamless connection to smart devices. It should have direct outs on the mic channels allowing easy connection to most DAW interfaces for recording. The DSP shall stream the stereo mix directly to and from a PC via USB. It should also have a tablet cradle to hold a smart device like tablet on DSP, for convenient display and easy operation. It should have 2 combination XLR/1/4" low noise mic preamps, 3-band EQ on all channels, 2 channels of EQ, EQ bypass per channel, LED clip and signal present indication, 2 Channels of direct out, Stereo pan control per channel, Channel 3/4 stereo 1/4" or 3.5mm input channel, Channel 5/6 stereo 1/4", RCA, or Bluetooth input channel. It should have Dual selectable control room outputs- 1/4" main stereo outputs. Should have high quality master LED meter bridge, Built-in master compression, Studio quality headphone output, Should be equipped with Bluetooth wireless connectivity, Bluetooth 3.0 + EDR, A2DP, Stereo USB-B streaming audio in and out, 16-bit, up to 48kHz	Nos	1	

	sample rates. Should have built-in Digital Effects, Should have exclusive on-board Hi Z guitar input and global 48V phantom power. Make- ATDSC/YAMAHA/ Equipson or equivalent			
14.	<p>SITC of Video Conferencing</p> <p>VC Hardware: Quantity 1 (One); Video Standards:H.261 , H.263, H263+, H.263++ , H.264 High Profile, H.264 Baseline Profile; Video Frame Rate : Should support 60 fps with 1080p resolution from day one; Video Feature Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and PC or document camera can be seen simultaneously.; Should support H.239 and BFCP protocols with 1080p resolution , Multi-Point Feature Should have 4 way SIP/H.323 in 1080p/60fps Multipoint video conference feature enabled from day one., Video Should support 2 monitors for Self View, Remote View and Content all in separate Monitors., Video Output Should have at least 2 nos. of HDMI / or equivalent (High Definition Multimedia Interface) output to connect Full High Definition display devices such as plasma and projectors for both Video and Content.(Dual Monitor Support); Should support 2 monitors for Self-View, Remote View and Content all in separate Monitors; Video Input : Should have at least 2 HD video Input to connect full HD cameras., Should have at least one additional video Input to connect auxiliary full HD camera. Should have VGA/DVI/HDMI port to connect PC/ Laptop directly to the Video conferencing system and display resolutions upto 1080p; Audio : Audio standards supported G.711, G.722,G.722.1, 64 kbps MPEG-4 AAC-LD or equivalent standard must be supported., Other Desirable features: Noise Reduction, Automatic Gain control, Acoustic Echo Canceller, Audio Inputs: Should support 4 Microphone inputs from day one, Bidder should supply 1 tabletop microphone., The microphones must be standard based microphones., The pick up of the microphones should be at least 10 feet from the microphone Echo Cancellation for every input must be available; External devices :Should have USB port for recording., Network Interfaces : 1 LAN /Ethernet-10/ 100 /1000 Mbps full duplex., Should have support for IPV4 networks Bandwidth IP at least 6 Mbps and upto 18 Mbps; Security : Menu Control Password protected system menu ; Encryption of video call : ITU-T standards based Encryption of the video call, Call should be encrypted end-to-end on IP , Should support Standards-based: SRTP (AES 128 bit), H.235 (AES 128 bit) ; USB device Mode PC Peripheral mode to support vc hardware(codec, camera, Microphone), all web application like skype for Business, Cisco WebEx , Zoom, Microsoft teams etc.</p> <p>Make-Panasonic/Polycom/CISCO or equivalent</p>	Nos	1	
15.	Rack 17 U required for VC facility	Nos	1	
16.	Cable & Connectors required for above items.	Lot	1	

*Bidder are required to mention Make/Model in compliance column of technical specification

6. Bill of Quantity

Sr. No.	Particulars	Unit	Qty.
1	Interactive Digital Board - Size- 86"	Nos	1
2	Interactive Digital Board - Size- 65"	Nos	3
3	Large Format Display - Size- 55"	Nos	1
4	4 input 4 output HDMI switcher/ scaler	Nos.	1
5	PTZ Camera –20X Optical Zoom, Look at Me Compatible	Nos	1
6	Cable Cubby box with HDMI, LAN, USB, and power.	Nos	1
7	Chairman Unit Microphone	Nos	1
8	Delegate Unit Microphone	Nos	16
9	Audio Controller- (For Audio Conferencing Mic.)	Nos	1
10	Integrated Processor with Controller for -Look At Me	Nos	1
11	Amplifier	Nos	1
12	Wall Mount Speaker	Pair	3
13	Digital Signal Processor- 6 Inputs and USB Out for VC and Live Streaming	Nos	1
14	Video Conferencing	Nos	1
15	Rack 17 U	Nos	1
16	Cable & Connectors	Lot	1

7. SPECIAL TERMS AND CONDITIONS

1. Site Visit: Prior to quoting rates, the bidders are advised to visit the RETTP projects site, Aacharpura, Bhopal. Contact details of site officials are as under :
 - Mr. Mahaveer Meena, Manager-Technical (Projects), email: mahaveer.meena@irel.co.in; Ph No. 09413192524 or
 - Mr. V. Chandrasekhar, GM & Head, email: v.chandrasekhar@irel.co.in; Ph No. 09995111750
 - Mr Nirdesh Kumar Sharma, SM (IT & Systems), 8104997149, email: nirdesh.sharma@irel.co.in – for technical information
2. Duration : The successful bidder should complete the supply, installation, and commissioning work within 60 days on receipt of the Order. The order should be accepted by the bidder within 7 days of its issuance.
3. Compliances required to be done as under GST regime of the MP State/ Central or as applicable
4. **Earnest Money Deposit**

Tenders shall remit EMD (Rs. 38,500/-) through NEFT/RTGS in favour of M/s IREL (India) Limited as mentioned in the schedule of tender or alternatively, EMD can be remitted by way of 'demand draft' or 'BG' in favour of IREL. BG should be from Indian scheduled Banks excluding co-operative banks. BG format is enclosed at Annexure V. Details of payment shall be uploaded in the portal as a separate PDF document. In case of payment through DD/BG, the original should be submitted offline within 7 days of opening of bid date. However, if the details of the payment of EMD through DD/BG are not uploaded in the bid, the bid will be summarily rejected.

EMD if any is liable to be forfeited if:

 - i. The tenderer changes the terms and conditions or prices or withdraw his quotation subsequent to the date of opening.
 - ii. The tenderer fails to accept the order when placed or fails to commence supplies/works/services after accepting the order.
 - iii. In case bidder submits false/fabricated documents.

5. SECURITY DEPOSIT /Performance Bank Guarantee

The successful tenderer (referred as successful bidder) is required to furnish Demand draft/ Bankers Cheque or Bank Guarantee (Format of BG is attached), in favour of IREL (India) Limited, Mumbai for an amount equivalent to three (3) per cent of the contract value towards Security Deposit/Performance security) towards the satisfactory performance of the contract, within 2 weeks of the receipt of letter of acceptance. The same is to be forwarded to DGM - T (I/c Purchase), Plot No. 1207, V.S. Marg, Prabhadevi, Mumbai – 400028. The SD/PBG should be valid for period of contract plus 36 months of warranty period. It should not be less than for 38 months from the date its issuance. In case of extension of contract period the SD/PBG period to be extended suitably.

The SD shall not bear any interest and is liable to be forfeited for unsatisfactory completion or on abandonment of the supply/ work order. Additional amount of SD due to enhancement in scope of work is to be submitted by the successful tenderer.

REFUND OF SD/Performance Bank Guarantee

- (i) Before releasing SD/PBG in respect of supplies, a “No Due Certificate” shall be issued by EIC duly countersigned by head of the department after ensuring that no amounts are recoverable from the supplier.
- (ii) EIC/OIC shall recommend release of SD/PBG .
- (iii) On receipt of “no dues certificate” from EIC, SD/PBG shall be refunded at the earliest, if supplier is not liable to pay any money to IREL under any other contract.

FORFEITURE OF SD

The SD shall stand forfeited in favour of IREL, without any further notice to the Supplier in the following circumstances:

- (i) In case of any failure whatsoever on the part of the Supplier at any time during performance of his part of the contract including the extended periods of contract, where notice is given and time for rectification allowed.
- (ii) If the Supplier indulges at any time in any subletting/ sub-contracting of any portion of the supplies without approval of IREL.
- (iii) If the Supplier abandons the supply /order.
- (iv) If the supplier not fulfills the guarantee condition during warranty period.

6. TERMS OF PAYMENT

Payment to be made to the selected bidder based on EIC certification as per the following milestones:

Sl. No	% age of order value	Milestone
1	50%	On supply of items at RETTP, Acharpura Industrial area, Bhopal.
2	50%	Installation, testing and commissioning of the equipment /system at RETTP.

- (i) The security deposit/ performance bank guarantee equal to the 3% of the order value will be returned after 3 years warranty period.
- (ii) All bills/ invoices are to be certified by EIC.

7. MODE OF PAYMENT:

The payment shall be released after deducting the following:

- (a) Compensation recoverable if any.
- (b) LD recoverable, if any.
- (c) Recoveries on account of contractee’s facilities and services, if any.
- (d) Deduction, if any, towards re-coupment of any amounts forfeited, adjusted, deducted out of security deposit.
- (e) All Statutory deduction, if any, as per rules.
- (f) Deduction as per IT Act, 1961, if any.
- (g) Any other deduction related to this contract.

8. Effect and validity of bid:

- (i) The submission of any bid connected with these documents and specifications shall constitute an agreement that the bidder shall have no cause of action or claim against IREL for rejection of his bid.
- (ii) The bid shall be valid for a period of 90 days from bid due date.

9. Right to reject the Tender:

- (a) IREL reserves the right to reject any tenders whatsoever without assigning any reason thereof.

(b) IREL reserves the right to modify/ add/ reduce the scope, either in whole or in part any of the clauses mentioned herein without assigning any reason thereof.

Further IREL, in its sole discretion and without incurring any obligation or liability, reserves the right, at any time, to;

- a. suspend and/ or cancel the Bidding Process and/ or amend and/ or supplement the Bidding Process or modify the dates or other terms and conditions relating thereto;
- b. consult with any Bidder in order to receive clarification or further information;
- c. pre-qualify or not to pre-qualify any Bidder and/ or to consult with any Bidder in order to receive clarification or further information;
- d. retain any information and/ or evidence submitted to IREL by, on behalf of, and/ or in relation to any Bidder; and/ or
- e. independently verify, disqualify, reject and/ or accept any and all submissions or other information and/ or evidence submitted by or on behalf of any Bidder

It shall be deemed that by submitting the Bid, the Bidder agrees and releases IREL, its employees, agents and advisers, irrevocably, unconditionally, fully and finally from any and all liability for claims, losses, damages, costs, expenses or liabilities in any way related to or arising from the exercise of any rights and/ or performance of any obligations hereunder and the Bidding Documents, pursuant hereto, and/ or in connection with the Bidding Process, to the fullest extent permitted by applicable law, and waives any and all rights and/ or claims it may have in this respect, whether actual or contingent, whether present or in future.

11. Prices: Tenders offering firm prices are only acceptable to us. Firm Price shall be quoted as per the price schedule for delivery at designated works. GST as applicable is to be considered as per the Price Schedule of the tender document.
12. TENDER RATES: a) The rates quoted in the price schedule shall be in Indian rupees only. The quoted rates shall be firm throughout the period of Contract including extension of time, if any. b) If the bidder submits abnormally low bid in combination with other elements of the bid which raises material concern as to the capability of the bidder to perform the contract at the offered price, the bidder shall be asked to provide detailed price analysis of the bid in relation to the scope, schedule allocation of risk and responsibilities and any other requirements of the bid documents. If the bidder fails to demonstrate its capability to deliver the contract at the offered price the price bid shall be considered un-responsive.
13. Vendor should be responsible for clearing the waste materials generated during installation work.
14. Data Sheet of the products(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.
15. The Bidder must quote all the products as per the Tender. Partial Bids will be rejected.
16. Organization is the final authority to judge the tender called items and has every power - to accept or reject the same without assigning any reasons
17. **WARRANTY**

The materials/equipment(s) and all accessories supplied shall be warranted against any defective material, malfunctioning or poor workmanship for a minimum period of 36 months from the date of installation.

8. GENERAL CONDITIONS OF THE CONTRACT

This document shall accompany and be a part of the tender. General conditions of procurement shall include the following clauses:

1. **DEFINITION OF TERMS:** In the contract (as hereinafter defined) the following words, definitions and expressions shall have the meanings hereby assigned to them. Except where the context otherwise requires.

- 1.1 Purchaser/Company/Contractee/IREL

The 'Purchaser/Company/Contractee/IREL' shall mean IREL (India) Limited, incorporated under the companies act, 1913 and having its registered office at Plot No.1207, opposite to Siddhi Vinayak Temple, Veer Savarkar Marg, Prabhadevi, Mumbai-400028.

- 1.2 Contractor/Supplier/Tenderer/Bidder

The 'Contractor/Supplier/Tenderer/Bidder' shall mean the person or company whose tender is accepted by the Purchaser and shall be deemed to include the Contractor's successors, legal heirs, executors, administrators, representatives and permitted assignees.

- 1.3 Sub-Contractor

The 'Sub-contractor' shall mean the person or company named in the contract for any part of the work or any person to whom any part of the contract has been sub-let by the Contractor with the consent in writing of the Purchaser and shall include his legal heirs, executors, administrators, representatives and assignees approved by the Purchaser.

- 1.4 Contract shall mean and include the Invitation to Tender, Instructions to Tenderers, General Conditions of Contract, Special Conditions of Contract, drawing specifications, scope of work, tender submitted by the Tenderer, including his price offer, Performance Guarantee Bond and other Bonds, Letter of Acceptance, Work/ Purchase/Service/Consultancy order and the contract and any communication having the effect of amendment of the contract and the contract agreement.

- 1.5 Contract Price means the sum mentioned in the tender that has been accepted, subject to such additions thereto or deductions there from as may be made under the provisions of the contract.

- 1.6 Duration of Contract means the period stipulated in the contract or work order and includes any extended period thereof, if any made by a written communication.

- 1.7 Officer-in-Charge (OIC) / Engineer-in-Charge (EIC)

The term "Officer-in-Charge (OIC) / Engineer-in-Charge (EIC)" as used herein shall mean officer or engineer as designated by IREL.

- 1.8 Representative of Officer-in-Charge (OIC) / Engineer-in-Charge (EIC) means any assistant of the Officer/Engineer appointed from time to time by IREL to perform the duties of OIC/EIC.

- 1.9 Terms & Conditions means the Special Conditions of Contract and General Conditions of Contract herein mentioned and other stipulations incorporated in any part of Tender Document and / or Agreement.

- 1.10 Tender Specification

The term "Tender Specification" shall mean the design data, drawing schedules, broad equipment characteristics and other technical details furnished with the invitation to tender for the purpose of submitting the offer by the tenderer.

1.11 Contract Specification

The term “Contract Specifications” shall mean the schedules, detailed designs, and statements of technical data, performance characteristics and all such mentioned as such in the contract.

1.12 Letter of Intent (LOI)

The term “Letter of Intent (LOI)” shall mean intimation by a letter to successful tenderer that the tender has been accepted in accordance with the provisions contained in that tender.

1.13 Site

The term “Site” shall mean the place or places envisaged by IREL at which the plant and equipment supplied under the contract are to be erected and/ or services / works/ consultancy are to be performed under the contract.

2 OFFICER-IN-CHARGE(OIC)/ ENGINEER-IN-CHARGE(EIC):

The Officer/Engineer-in-charge shall have authority for

- General supervision, follow up of supply and direction of the work.
- Direction to stop the work whenever such stoppage may be necessary to ensure the proper execution of the contract.
- To reject all works and materials which do not conform to the contract.

The OIC/EIC shall have neither any authority to relieve the contractor of any of his duties/ obligations under the contract nor ordering any work involving delay or any extra payment by IREL or making any variation of or in the work except otherwise expressly provided here-in-under or elsewhere in the contract.

3 CONFLICT AND INTERPRETATION OF DOCUMENTS:

3.1 Words imparting the singular only also include the plural and vice versa where the context requires, words imparting persons include firms or corporations and vice versa where the context requires.

3.2 Word imparting masculine gender includes the feminine gender and vice versa where the context so requires.

3.3 The several documents forming the contract are to be taken as mutually explanatory of one another.

3.4 In case conflicting statements or directives should occur among the contract documents, it shall be the responsibility of the successful bidder to notify IREL, with a copy sent concurrently to the OIC/EIC, immediately in writing and obtain instructions from IREL to eliminate the conflict.

3.5 The successful bidder shall notify IREL, with a copy sent concurrently to the EIC/OIC, promptly of any discrepancies, omissions or doubts it may have, regarding drawings, specifications, or other documents. Noted or calculated dimensions shall always be followed.

3.6 In the event of conflict between various documents forming the contract, the relevant terms and conditions of the work/ purchase/service/consultancy order shall prevail over those of all such other documents forming the contract and binding on the contractor and IREL.

3.7 In case of conflict between the General Conditions of contract and the Special Conditions of the contract, the Special Conditions of the contract, the Special Conditions of contract shall prevail.

4 STANDARDS:

The Machinery, Material, Works, Services etc supplied under this contract shall conform to the standards mentioned in the Technical Specifications and, when no applicable standard is mentioned, the latest current edition or revision of the relevant Indian Standards and Codes shall be considered.

5 SCOPE OF ORDER AND SPECIFICATIONS:

Contractor shall supply the material or execute the work according to the specifications enclosed and in accordance with all conditions both general and specific enclosed with work/purchase/service/consultancy order, unless any or all of them have been modified or cancelled in writing either as a whole or in part by IREL.

6 INSPECTIONS OF SITE:

The bidder or his representative shall be deemed to have inspected and examined the site and surroundings before submitting his tender and shall obtain the necessary information as to risks and other circumstances which may influence or affect his tender.

7 ASSIGNMENT AND SUBLETTING:

7.1 The contractor shall not assign, sublet, or transfer the contract or any part thereof or any benefit or interest therein or there under without the written consent of IREL.

7.2 The contractor shall not sublet the whole or any part of the work without the written consent of IREL and such content, if given, shall not establish any contractual relationship between the sub-contractor(s) and IREL and shall not relieve the contractor of any responsibility, liability, or obligations under the contract and the contractor shall be responsible for the acts, defaults or neglects of any sub-contractor or his agent or workmen.

8 PRICES:

Unless otherwise agreed to specifically in order, the price payable by IREL to the contractor under the order shall remain firm throughout the period of contract.

The Bidder shall include in his tender all items of equipment/ system etc. as stated in the technical specifications of the tender.

The prices shall be itemized in accordance with the Price bid Schedule attached with the tender and the Bidder quoted for all items as per Price bid format will only be considered for opening the price bid.

The Contractor is responsible and liable for remitting all statutory dues collected/included in the Price schedule of the contract to the statutory authorities without fail. IREL is not responsible for remittance of such statutory liabilities of the contractor.

9. TAXES, DUTIES & LEVIES:

Bidders must clearly mention their Tax Registrations, wherever applicable in their offers and invoices.

Tax shall be clearly mentioned in the offer indicating the applicable rates, otherwise it shall be inclusive of tax, as applicable.

In order to enable IREL to avail tax benefits, the contractor shall ensure submission of Tax invoice as per the prescribed formats by the statutory authorities. In case the supplier fails to submit the requisite documents, the amount on account of duties/taxes, levies as indicated in his quotation / invoice/ work order/contract shall not be paid.

10. LIQUIDATED DAMAGES (LD):

- 10.1 Liquidated Damages (LD) shall be levied where reasons are attributable to supplier / contractors for delays in execution of purchase order/ contract. LD shall be levied @0.5% per week or part thereof on the value of unfinished supply/work order for each week of delay subject to a maximum of 5% of the total value of contract.
- 10.2 Wherever the supply/work is on turnkey or having a bearing in commissioning and performance of the system in total, LD is to be imposed on total value, in such cases.

11. FORCE MAJEURE:

- 11.1 Force majeure is an event beyond the control of supplier/contractor and not involving the supplier's / contractor's fault or negligence and which is not foreseeable. Such events may include but are not restricted to acts of the purchaser/contractor either in its sovereign or contractual capacity, wars or revolution, hostility, acts of public enemy, civil commotion, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts and freight embargoes or any other event which IREL may deem fit to consider so. The decision about force majeure shall rest with IREL which shall be final and binding. Force Majeure clause has to be compulsorily embedded in the order.
- 11.2 If there is delay in performance or other failures by the supplier/contractor to perform obligations under its contract due to event of a Force Majeure, the supplier / contractor shall not be held responsible for such delays/ failures.
- 11.3 If a Force Majeure situation arises, the supplier/contractor shall promptly notify the purchaser in writing of such conditions and the cause thereof within fifteen days of occurrence of such event. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as reasonable/practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 11.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period of exceeding sixty days, IREL may at its option terminate the contract without any financial repercussion on either side.

12. CORRESPONDENCE:

All correspondence shall be in English and addressed to IREL drawn to the attention of the officer issuing the order, unless otherwise specifically authorized.

13. COMPLIANCE WITH STATUTORY AND OTHER REGULATIONS:

The contractor shall, in all matters arising in the performance of the contract, conform at his own expense to the provisions of all Central or state statutes, ordinances or laws and the rules, regulations, or bye laws of any local or other duly constituted authority and shall keep the purchaser indemnified against all penalties and liabilities of every kind for breach of any statute, ordinance, law, rule regulations or bye-law.

The Contractor shall give all notices and pay all fees and taxes required to be given or paid under any Central or State statutes, ordinances or other laws or any regulations or byelaws of any local or other duly constituted authority in relation to the contract.

14. METHOD OF BLACKLISTING VENDORS:

- 14.1 Any failure by the vendor to supply/execute the contract as per order may result in blacklisting of vendors by the authority competent to conclude the contract. The blacklisted vendor shall not be considered for a minimum period of one year from the date of blacklisting.
- 14.2 Further the competent authority may blacklist the bidder if the bidder changes bid either techno-commercial and/or price or withdraw his bid after receipt of the same and during the validity period of bid.
- 14.3 Further the vendor shall be banned from doing any business with IREL in case of:
- a. If security considerations including question of loyalty to the state so warrant.
 - b. If the proprietor of the firm, its partner or representatives is convicted by a court of law following prosecution for offences relating to business dealings.
 - c. If there is strong justification for believing that the proprietor or employee or representative of the firm has been guilty of malpractice such as bribery, corruption, fraud, substitution of tenders, interpolation, misrepresentation, evasion, or habitual default in payment of any tax levied by law, etc.
- 14.4 An order for ban / suspension passed for a certain specified period shall be deemed to have been automatically revoked on expiry of that specified period and it will not be necessary to issue a specific formal order of revocation, except that an order of suspension/ ban passed on account of doubtful loyalty or security consideration shall continue to remain in force until it is specifically revoked.
- 14.5 An order of ban on grounds of conviction by court of law may be revoked it, in respect of the same facts, the accused has been wholly acquitted by a court of law.

15. SECRECY:

The Contractor shall not at any time during the pendency of the contract or there after disclosing any information furnished to them by IREL or any drawings, designs, reports and other documents and information prepared by the contractor for this contract without the prior written approval of IREL except in so far as such disclosure is necessary for the performance of the contractor's work and service hereunder.

16. INDEMNITY:

The Contractor shall indemnify IREL and keep IREL indemnified to the extent of the value of free issue materials to be issued till such time the entire contract is executed and proper account for the free issue materials is rendered and the left over/surplus and scrap items are returned to IREL. The contractor shall not utilize IREL's free issue materials for any job other than the one contracted out in this case and also not indulge in any act, commission or negligence which will cause / result in any loss / damage to IREL and in which case, the contractor shall be liable to IREL to pay compensation to the full extent of damage/loss and undertake to pay the same.

17. DEATH, BANKRUPTCY, ETC.

If the contractor dies or dissolve or go into bankruptcy, or being a corporation cause to be wound up except for reconstruction purposes or carry on its business under a receiver, the executors, successors or other representatives in law of the estate of the contractor or any such receiver, liquidator, or any person in whom the contract may become vested, shall forthwith give notice thereof in writing to IREL and shall remain liable for the successful performance of the contract, and nothing aforesaid shall be deemed to relieve the Contractor or his successors of his or their obligations under the contract under any circumstances. IREL may terminate the contract by notice in writing to the contractor.

18. ARBITRATION:

All disputes and differences of any kind whatsoever arising out of or in connection with the contract or carrying out of the works (whether during the course of works or after their completion and whether before or after determination, abandonment or breach of contract) shall be referred to and settled by the person authorized and notified in writing by IREL who shall state his decision in writing. Such a decision may be in the form of a final certificate or otherwise, within a period of 30 days from the date of receipt of such reference to them.

If the bidder is dissatisfied with the decision of such authorized person, then he may within 30 days of receipt of such decision send a written appeal to IREL, represented by the Chairman and Managing Director at the registered office., Mumbai for Arbitration, in accordance with the provisions of the Arbitration and Conciliation Act and the Rules framed there under from time to time, and for the time being in force. Such written appeals should however specify only those matters in dispute, which have been referred to such authorized person but not satisfied with the decision and the reasons leading to his dissatisfaction.

If the period of 30 days has expired at any stage, stipulated in the preceding paras without any response from the bidder before such expiry, the bidder is deemed to have communicated his satisfaction to the decision of IREL at the relevant stage and all his rights of further appeal or as the case may be, adjudication is deemed to have been waived once and for all.

The seat of arbitration will be at Mumbai and only the appropriate court coming under High Court of Mumbai will have jurisdiction to entertain all matters of litigation to the exclusion of all other courts.

The bidder shall not in any way delay or default or cause to delay or default the carrying out of the works by reason of the fact that any matter has been agreed to be referred to and / or referred to Arbitration.

For Global tender this clause may be modified by the competent authority on case-to-case basis.

19. JURISDICTION:

The Courts within the local limits of whose jurisdiction the place from which the purchase order is issued is situated only shall, subject to Arbitration Clause, have jurisdiction to deal with and decide any matter arising out of this contract.

20. NO CLAIM FOR COMPENSATION FOR SUBMISSION OF TENDER:

The tenderer whose tender is not accepted shall not be entitled to claim any costs, charges, expenses of and incidental to or incurred by him through or in connection with his submission of tender, even though IREL may elect to withdraw the invitation to tender.

21. RISK PURCHASE CLAUSE:

After award of the contract, if the tenderer fails to execute the supply as per tender or at any time repudiates the order, IREL has the right to forfeit the EMD and invoke the security deposit and execute the order from other agencies at the risk and cost of the tenderer. The cost difference between the alternative arrangements and total contract value will be recovered from the tenderer along with other incidental charges. In case of execution of order through alternative sources and if price is lower, no benefit on this account will be passed on to the tenderer.

22. RELATED PARTY:

Bids submitted by related parties in which there seems to be collusion are liable to be rejected. Parties are related if one party has the ability to control the other party or exercise significant influence over the other party in making financial and / or operating decision.

23. PATENT INFRINGEMENT AND INDEMNITY:

The supplier shall protect, indemnify and save harmless to IREL, its successors, assigns, customers and users of its products, against all liability, including costs, expenses, claims, suits or proceedings at law, in equity or otherwise, growing out of, or in connection with, any actual or alleged patent infringement(including process patents, if any), or violation of any license with respect thereto, by reason of the manufacture and / or sale by, or on behalf of Supplier of the plant or any part thereof, or the purchase thereof by IREL or the use thereof in India for the purchase for which it is furnished, or the sale by IREL, its successors or assigns or products made, manufactured, fabricated, processed or produced with the said plant or any part thereof, and will defend or settle at Supplier's own expense, any such claims suits, or proceedings. IREL will promptly notify the Supplier in writing of any such claim, suit, action or proceeding coming to its attention, giving authority and all available information and assistance for the Suppliers defence of the same. If at any time the installation of the plant or any part thereof , or the use thereof in India for the purpose for which it is furnished or the sale of products produced therewith, is prevented or enjoyed because of patent infringement or claimed infringement, the Supplier shall promptly at his own expense, either procure for IREL the rights to use and continue to use such plant or replace the same at his own expense with equally efficient non-infringing plant satisfactory under all requirements of the contract, so that the operation of IREL's plant will not be unduly delayed or interrupted. If shipment of the plan, or any part thereof is prevented by attachment, injunction or otherwise, or in the course of transit from the Suppliers factory or other point of origin to the site of IREL, as a result of any claim of patent infringement the Supplier shall, at his own cost and expense, promptly furnish and post the necessary bond or take such other steps as may be necessary to enable shipment to be made without delay. IREL will have the right to retain counsel of its own choice to collaborate in the defense of such claim, suit action or proceeding.

24. CANCELLATION:

IREL reserves the right to cancel the Purchase/Work/ Service/Consultancy Order or any part thereof and shall be entitled to rescind the contract wholly or in part in a written notice to successful tenderer if;

- Successful tenderer fails to comply with the terms of the purchase/work/service/consultancy order.
- Successful tenderer fails to convey written acceptance of the Order within 15 days of receipt at their end.
- Successful tenderer becomes bankrupt or goes into liquidation.
- Successful tenderers make a general assignment for the benefit of creditors and a receiver is appointed for any of the property owned by successful tenderer fails.

Upon receipt of the said cancellation notice the successful tenderer shall discontinue all work on the Purchase/Work/Service/Consultancy order and matters connected with it. IREL in that event will be entitled to procure the requirements in the open market and recover excess

payment over successful tenderer's agreed price, if any, from reserving to itself the right to forfeit the and /or security deposit, if any, submitted by the successful tenderer against the contract.

25. ETHICS IN TENDERING & OTHER BUSINESS DEALINGS:

Dear Sir,

IREL (India) Limited, a Government of India undertaking under the administrative control of Department of Atomic Energy is doing its business as per the rules and regulations of the Public Sector Undertaking and other statutory agencies. The business is done in an ethical, rational & impartial manner with good corporate governance.

In our endeavour to be more transparent in our dealings and to support our ideology all Vendors, Customers and Business Partners are requested not to provide any gift and / or inducement to any of our employees for securing/ being granted favour in dealings with our company. In assurance of your commitment to the aforesaid, it will be highly appreciated if you fill up, sign and abide by the attached undertakings.

Report of any gifts and / or inducements sought by any employee of the company should be immediately reported to any one of the following.

Chairman & Managing Director IREL (India) Limited. 1207, V.S. Marg, Prabhadevi, Mumbai-400 028 Ph:022-24225778 Email: cmd@irel.co.in	Chief Vigilance Officer IREL (India) Limited. 1207, V.S. Marg, Prabhadevi, Mumbai-400 028 Ph:022-24221065 Email: cvo@irel.co.in
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We assure you that complaints if any made by you on the subject will be kept confidential and fair investigation will be conducted and appropriate action will be taken. Similarly, we accept your commitment to the undertaking and its violation will have consequences as per prevailing rule of the company.

Thanking you,

For IREL (India) Limited

Name_____

Designation_____

Date

26.UNDER TAKING:

Date:

To,

M/s. IREL (India) Limited.,
1207, V.S. Marg, Prabhadevi
Mumbai 400 028.

I / We am / are a Vendor /
Customer of IREL (India) Limited (now onwards to be referred as Company).

I / We agree and undertake:

Not to provide any gift and / or inducement to any employee of the Company in connection with securing / being granted favour (s) in my / our dealings with the corporate office of the company and / or its any field units namely MK, Chavara, OSCOM, RED & IRERC.

To immediately report any gift and / or inducement sought by any employee of the Company granting favour(s) to me / us in my / our dealings with the Company and / or its field units.

Signature.....

Name.....

Title.....

Name of the Company and Address (with Seal).....

DECLARATION – NON-BLACKLISTING

(To be submitted by an Authorized Signatory on the company's original letter head with signature and seal)

To,

**DGM -Technical (Purchase)
IREL (India) Limited
Corporate Office Mumbai
PLOT NO. 1207, VEER SAVARKAR MARG
NEAR SIDDHIVINAYAK TEMPLE
PRABHADEVI
MUMBAI-400028**

Sir,

In response to the Bid Ref No.: _____ dated _____ 2023,
I/We hereby declare that presently our agency has not been declared ineligible or black listed for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State Govt./ Central Govt./PSU/Government of India Society 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 bid if any, to the extent accepted may be cancelled.

Thanking you,

Yours faithfully,

Name of the agency : -
Authorized Signatory: -
Seal of the Organization: -

Date:
Place:

**FORMAT FOR CERTIFICATE FROM PRACTICING CHARTERED ACCOUNTANT
FOR ELIGIBLE WORKS**

Certificate from the practicing chartered accountant

Based on its books of accounts and other published information authenticated by it, this is to certify that (name of the Bidder) was engaged by (title of company) for (name of work).

The total fees received by the Bidder for the work is

We further certify that the said work was completed on (date).

Name of the audit firm:

Seal of the audit firm:

Date:

License/registration no:

UDIN NO.

(Signature, name, designation of the authorized signatory of the audit firm)

Signature of Authorised Signatory with seal

Particulars of the bidder

Sl.	Particulars	Details
1.	a) Name of Bidder b) Legal status (e.g. incorporated private company, unincorporated business, partnership etc.): c) Date of incorporation and/ or commencement of business d) Brief details about main line of business.	
2.	Bank details:- The payments to be released from IREL will be made through e-payments. The contractor has to provide the following details: <ul style="list-style-type: none"> • Beneficiary name: • Account Number: • Name of the bank: • IFSC: • Nature of Account (Savings/Current/CC/OD): Branch Code 	
3.	Particulars of individual(s) who will serve as the point of contact/ communication for the Bidder <ul style="list-style-type: none"> a) Name b) Designation c) Company d) Address e) Telephone Number f) Email address 	
4.	Particulars of the Authorized Signatory of the Bidder <ul style="list-style-type: none"> a) Name b) Designation c) Company d) Address e) Telephone Number f) Email address 	
5.	GST and PAN no details:	

Requirement details of tender documents

Note: The complete bid document submitted by the bidder as technical bid (Part 1) shall be duly numbered in each page. Based on the numbering done, the following table should be filled up by the bidder.

Sl.	Required Documents	(bidder should correctly fill the following column)	(Indicate page number of the bid document where related information is shown/available, so that it can be verified by IREL)
1.0	Complete documents as per the Pre-qualification criteria a. WO and completion certificate b. Financial capability c. A self-certified letter that the bidder has not been blacklisted d. Letter of Authorization from respective OEMs		
2.0	Data sheet of the technical specification		
3.0	Particulars of the bidder		
4.0	Ethics and Undertaking of GCOC		
5.0	Annexures (I, II, III, IV & V)		

EMD Declaration

I have furnished a sum of Rs. 38,500/- (Rupees thirty eight thousand five hundred only) towards EMD vide NEFT/RTGS/BG No..... dated.....

Place:

Signature of tenderer:

Full Address:

IREL Bank Details

Name of the Bank	HDFC Bank Limited, V S Marg, Opp. Siddhivinayak Temple, Prabhadevi, Mumbai – 400028
Account Type	Current Account
Account Number	00122320000135
IFSC Code	HDFC0000012

Details of payment to be uploaded to purchase-ho@irel.co.in

Email should contain the following details

- 1) Name of the company
- 2) Transaction ID with details Bank and Branch

PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

(To be issued by approved Scheduled Banks)

In accordance with Bid No. _____ Dated _____ for the work of _____ (herein after referred to as "the said Works") for Rs. _____ (Rupees _____ only), under _____ (Corporate Office) of M/s IREL (India) Limited, a company incorporated under Indian Companies Act, having its registered office at Plot No.1207, ECIL building, Opp. to Siddhivinayak Temple, Veer Savarkar Marg, Prabhadevi, Mumbai – 400028, India (herein after referred to as IREL), M/s _____ Address _____ [Herein after referred to as Contractor (s)] wish /wishes to participate in the said tender and a Bank Guarantee for the sum of Rs. _____ (in words) valid for a period of _____ days (in words) is required to be submitted by the Bidder towards the Bid Security.

We the _____ Bank (hereinafter called the said Bank) do hereby undertake to pay to IREL, the sum of Rs. _____ (Rupees _____ only) by reason of the said tenderer's failure to enter into an agreement of contract on intimation of acceptance of his tender and/or to commence the contract works and/or failure to deposit the security deposit within the stipulated period as per the terms and conditions relating to and/or governing the contract and/or specified in the Bid. We also agree that any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. We also agree that notwithstanding any dispute or difference or any litigation in respect of or arising from the said contract and/or the acceptance of the tender of the tenderer afore stated by IREL including the question as to the tenability of the claim of the IREL for forfeiting the Earnest Money being the Bank Guarantee herein, we shall forthwith pay the said amount to IREL on demand being made as aforesaid.

We _____ Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for entering into an Agreement of contract and that it shall continue to be enforceable till all the dues of the IREL under the terms and conditions of the Bid for the work have been fully paid and its claims satisfied or discharged or till IREL certifies, that the terms and conditions of the bid have been fully and properly carried out by the said tenderer and accordingly discharges the guarantee.

We _____ Bank further agree with the IREL that the IREL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the Bid and/or terms and conditions governing the contract or to extend the time of validity of the offer from the said tenderer from time to time or to postpone for any time or from time to time any of the powers exercisable by the IREL against the said tenderer and to forbear or enforce any of the terms and conditions of the Bid and we shall not be relieved from our liability hereunder by reason of any such variation, or extension being granted to the said tenderer or for any forbearance, act or omission on the part of the IREL or any indulgence by the IREL to the said tenderer or by any such matter or thing whatsoever which under the law relating to surety/guarantee would but for this provision have effect of so relieving us.

We _____ Bank do hereby further agree that any change in the Constitution of the said tenderer or the Bank will not affect the validity of this guarantee.

We _____ Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the IREL in writing.

Dated the _____ day of _____ 20--

Bank
(Signature with name in Block letters with designation,
Attorney as per power of Attorney No. _____ dt. _____)
Bank's Common seal

**PROFORMA FOR BANK GUARANTEE FOR SECURITY DEPOSIT/Performance
Bank Guarantee (to be issued from a scheduled bank)**

WHEREAS on or about the day of M/s (Tenderer's name & address), having its registered office situated at (Postal address) (herein after referred to as 'The Tenderer') entered into a contract bearing reference no. dtd. with (MK unit/Chavara unit/OSCOM unit/ RED unit/Corporate Office) of M/s IREL (India) Limited, a company incorporated under Indian Companies Act having its registered office at Plot No.1207, ECIL building, Opp. to Siddhivinayak Temple, Veer Savarkar Marg, Prabhadevi, Mumbai – 400 028, India (herein after referred to as IREL), for (details of order) (herein after referred to as 'The Contract').

AND WHEREAS under the terms and conditions of the contract the tenderer is required to keep with IREL a security deposit/Performance Bank Guarantee of Rs. (Rupees only) or submit a Bank Guarantee in lieu of cash deposit for the fulfillment of the terms and conditions of the contract, and whereas the supplier has chosen to submit a Bank Guarantee till completion of the guarantee period.

We Bank do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from IREL stating that the amount claimed is due by way of loss or damage caused to or that would be caused to or suffered by IREL by reason of breach of any of the terms and conditions of 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. The payment will be released within three working days from the date of demand for payment.

We undertake to pay to IREL any money so demanded notwithstanding any dispute or disputes raised by the tenderer in any suit or proceeding pending before any court or tribunal relating thereto, our liability under these present being absolute and unequivocal.

The payment so made by us under this guarantees shall be valid discharge of our liability for payment thereunder and the tenderer shall have no claim against us for making such payment.

We 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 Agreement and that it shall continue to be enforceable till all the dues of IREL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till IREL certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said tenderer and accordingly discharges this Guarantee. Our Guarantee shall remain in force until and unless a demand or claim under this guarantee is made on us in writing within three months from the expiry of the Guarantee period, we shall be discharged from all liability under this Guarantee thereafter.

We Bank, further agree that IREL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extent time of performance by the said tenderer from time to time or to postpone for any time or from time to time any of the powers exercisable by IREL against the said tenderer and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relived from our liability by reason of any such variation, or extension being granted to the said contract or for any forbearance, act or omission on the part of IREL or any indulgence by IREL to the said tenderer 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.

This guarantee will not be discharged due to the change in the constitution of the Bank or the Consultant.

We Bank lastly undertakes not to revoke this guarantee during its currency except with the previous consent of IREL in writing.

Dated the day of 20--

Bank

(Signature with name in Block letters with designation, Attorney as per power of attorney No. dt)

Bank's Common seal