

**BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)

PIPING CENTRE, MATERIAL MANAGEMENT

PUR 002/01

80, Gopathy Narayanaswamy Road, T.Nagar, Chennai – 600 017.

Phone: 2816 1243

INDIGENOUS ENQUIRY	ENQUIRY REFERENCE	DATE
	4501700024	03.11.2017
NAME OF SUPPLIER :	DUE DATE FOR QUOTATION – 22.11.2017	
	THIS IS ONLY A REQUEST FOR QUOTATION AND NOT AN ORDER	

Suppliers Are Requested To Go Through Terms &amp; Conditions Before Submission of Offers.

Sl. No.	Material Code	Description & Specification	Unit	Qty.	DELIVERY SCHEDULE		
					Qty.	Date	Remarks
10		Procurement of face based Biometric Access Control System	No.	1			
20		Fire Alarm System	No.	1			
30		CCTV System	No.	1			
40		AMC for 2 Years for Face based Biometric Access Control System, fir Alarm System and CCTV System	Yr	2			

Encl. to Enquiry: Important information to Bidders

1. Price Format
2. Technical Scope Compliance Sheet

Dear Sirs,

Please submit your lowest quotation in triplicate, subject to our terms and conditions overleaf, for the above materials, so as to reach us on or before the due date by 2 P.M.

1. Quotations will be opened at 2-30 P.M. on the due date in camera/In the presence of the tenderers who may like to be present.
2. Price should be net FOR destination inclusive of risk in transmit and remain valid for 120 days from the due date.
3. If any Sales tax and Excise duty are payable as extra to the quoted price the percentage of the same should be specifically stated in the quotation failing which the purchaser will not be liable for payment of Sales Tax / Excise Duty. **GST No. 33AAACB4146P2ZL.**
4. If the enquired items are coming under D.G.S & D rate contract, please indicate the rate contract prices duly sending a copy of the rate - contract along with your offer.
5. No revision of prices will be entertained after tenders are opened.
6. Manufacturers name, brand name trademark or patent No. if any should be specified. Illustrate leaflets giving particulars are required along with quotation wherever necessary.
7. The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject in part or full without assigning any reason whatsoever.
8. Late tenders are liable to be rejected.
9. Any deviations to the enquired technical and commercial conditions shall be clearly indicated in the covering letter of the quotation.

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

DGM / Purchase

**S. VARADARAJAN**  
Dy. General Manager / Purchase  
BHEL - Piping Centre  
80, G.N. Road, T. Nagar,  
Chennai - 600 017.

### IMPORTANT INFORMATION TO BIDDERS

- 1) This tender is a **TWO PART bid**, i.e, technical bid and price bid are to be enclosed in two separate envelopes and sent in one larger envelope.
- 2) The original formats (Technical and Price Format given along with Enquiry), containing the sign and seal of BHEL authorized signatory alone should be used. Offer will not be accepted if the format is reproduced and given in any other form.
- 3) **Unpriced Bid Part-1 (one envelope)**
  - a) Important Information to bidders
  - b) Annexure – 1
  - c) Terms and Conditions
  - d) Technical Compliance Sheet (3 items)shall be sent along with the technical bid clearly mentioning the type of tax applicable, applicable on which parameters and %age. Values should not be mentioned.
- 4) **Priced Bid Part- 2 (one envelope)**  
BHEL Price Format alone should be sent in the Price Format.
- 5) The above bids shall be put in a sealed envelope and duly superscribed as follows :-

**Enquiry No. 4501700024 Dt. 03.11.2017. Tender Opening Date. 22.11.2017 (2.30pm)**

It shall be addressed to the following:-

To.

**DGM / Purchase  
Bharat Heavy Electricals Limited,  
Piping Centre,  
80, G.N. Road, T.Nagar,  
Chennai – 600 017.  
Phone: 28161243"**

- 6) Last date of submission is **22.11.2017 (2 PM)**. The bid opening date and time is **22.11.2017, 2.30 PM**.
- 7) L1 bidder will be arrived based on the total landed cost to BHEL, i.e, summation of lease rate, taxes and duties for the entire contract period.
- 8) BHEL reserves the right to negotiate with the L-1 bidder.
- 9) **LOADING CRITERIA:**

Payment Terms - BHEL operates various payment terms for the tenders floated and bidders should accept the payment terms specified in the tender. Loading of any deviation in the payment terms w.r.t. NIT terms shall be referenced as follows;

'Base rate of SBI (as applicable on the date of bid opening; Techno-commercial bid opening in case of two part bids) + 6%', shall be considered for loading for the period of relaxation sought by bidders.

Liquidated Damages - Any loading on LD clause shall be to the extent to which it is not agreed to by the bidder (at offered value).

For any clarifications, kindly contact us on the above mentioned address and contact number. Kindly keep your offer error-free, which may otherwise lead to rejection of your offer.

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**ANNEXURE – I (Enq. No. 4501700024 / 03.11.2017)**

**(Details of Equipment to be Supplied and Installation Details)**

**1. Access Control System :**

SNo.	Item	Qty
1	Face Recognition cum Proximity/Smart Card based Access Control System	1
2	Electromagnetic Lock	1
3	Exit Switch	1
4	Emergency Switch	1
5	Plain Proximity or Smart Card	10
6	Cables and Connectors	As on actuals

**Installation Location:** Data Center Room in Gr. Floor, BHEL Piping Centre, No.80, G.N.Road, T.Nagar, Chennai – 600017.

**2. Fire Alarm System:**

SNo.	Item	Qty
1	4 Zone Conventional Fire Alarm Panel with battery	1
2	Smoke Detector	9
3	Manual Call Point	3
4	Hooter	3
5	Armored FRLS cable (per meter basis)	As on actuals

**Installation Location:** BHEL Piping Centre, No.80, G.N.Road, T.Nagar, Chennai – 600017.

**Installation Details:**

1. 4 Zone Conventional Fire Alarm Panel to be installed in Gr. Floor near Data Center.
2. 5 smoke detectors to be installed in the Data Center room in Gr. Floor.
3. 2 smoke detectors to be installed in the UPS room in Gr. Floor.
4. 1 smoke detector to be installed in the Network room in 3<sup>rd</sup> Floor.
5. 1 smoke detector to be installed in the UPS room in 3<sup>rd</sup> Floor.
6. Manual call point and Hooter to be installed in 3 locations in Gr. Floor of the building. One near Security booth, one near electrician room and one near lift.

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### 3. CCTV System:

SNo.	Item	Qty
1	IR Camera	3
2	4 Channel DVR	1
3	4 TB HDD for DVR	1
4	12V / 2 Amp Power Supply	3
5	RG6 Video Cable with conduit (per meter basis)	As on actuals

**Installation Location:** BHEL Piping Centre, No.80, G.N.Road, T.Nagar, Chennai – 600017.

#### Installation Details:

1. 4 Channel DVR to be installed in the Data Center room in Gr. Floor.
2. 2 Cameras to be installed in the Data Center room in Gr. Floor.
3. 1 Camera to be installed in the UPS room in Gr. Floor.


  
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## TERMS & CONDITIONS OF THE CONTRACT

Enq. No. 4501700024 / 03.11.2017

The vendor shall comply to all the below terms and conditions,

Sl.No	Terms & Conditions of the Contract	Yes/No	Remarks
1	As per requirement of BHEL Piping Centre, the vendor shall supply, install, configure and test the Face based Biometric Access Control System, Fire Alarm System and CCTV in BHEL Piping Centre, Chennai.		
2	The vendor shall ensure one year warranty and two years comprehensive AMC post warranty period for the Face based Biometric Access Control System, Fire Alarm System and CCTV. During this period, any faults w.r.t. Access Control System, Fire Alarm System and CCTV, and its accessories & consumables has to be handled by vendor at no extra cost.		
3	<b>The vendor shall provide 24x7 support for three years from the date of installation of the solution, including one year warranty period and two years comprehensive AMC period.</b>		
4	The Access Control System, Fire Alarm System and CCTV System supplied by the vendor shall be <b>new</b> .		
5	The quoted price shall include transportation, supply, installation, maintenance, support, management software and miscellaneous items required for installation of the equipment.		
6	The solution supplied by vendor shall be upgradable and usable for at least 5 years from the date of installation.		
7	The vendor shall have a full - fledged company service facility in Chennai.		
8	Vendor shall ensure an onsite service response time of within 4 hours from a complaint been registered by BHEL.		
9	Whenever new configuration needs to be incorporated, the vendor or supplier shall accomplish it as per BHEL request.		
10	Support level matrix shall be submitted by the vendor in their techno-commercial bid itself.		
11	Monthly preventive maintenance shall be performed by the vendor and performance report for the same shall be submitted at the end of every month.		
12	Any issue shall be attended immediately by the vendor and that at any point of time if the equipment is down and a delay is anticipated for the replacement to arrive, then the vendor shall provide an equivalent equipment for continuity of service.		
13	The schedule for periodical maintenance of equipment shall be furnished by the vendor while getting PO.		
14	The vendor shall provide a direct support and shall not have a third party sub contract for support and service.		

  
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The vendor shall comply to all the below terms and conditions,


Sl.No	Terms & Conditions of the Contract	Yes/No	Remarks
15	If required by BHEL, the vendor shall support for the shifting of installed equipment to any other location within the limits of Chennai by dismantling and re-installation of the equipment. A mutually agreeable cost will be paid by BHEL, for dismantling the equipment at existing location and installation at new location.		
16	Vendor shall arrange for a training session to BHEL on the operation of installed Fire Alarm System, Access Control System and CCTV System.		
17	The vendor shall support the installation and configuration of Access Control System & CCTV Management Software during the migration of PC/ Server hardware, in which the software runs.		
18	After installation, vendor shall submit the invoices along with installation certificate signed BHEL IT Executive, Installation drawing, warranty certificates, if any and software licenses, if any to BHEL.		
19	Payment for cabling will be made as on actuals based on per metre basis (Applicable only to Fire Alarm system and CCTV system). The cost of cabling includes all materials, miscellaneous items used for cabling, conduiting (where ever applicable) and cable/conduit laying charges and no extra cost will be paid.		
20	Shall comply the payment term : 100% payment will be made after successful installation of the appliance and the payment for AMC will be paid at the end of every quarter from the date of start of the AMC.		

  
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## Technical Compliance Sheet

### (Access Control System)

SNo.	Technical Specification	Parameter	Yes/No	Remark
<b>1</b>	<b>Face based Biometric &amp; Card Reader</b>	NA		
1.1	Operation mode	Face based Biometric with Contact Less Card		
1.2	Card Reader's card storage capacity	Minimum 500 users 1: N matching		
1.3	Card Reader face storage capacity	Minimum 500 users 1: N matching		
1.4	Card Reader transaction storage capacity	Minimum 1,00,000		
1.5	Card Reader verification time	Less than 1 second		
1.6	Card Reader read range (Sensor Distance)	30 cms to 80 cms		
1.7	Card Reader False Acceptance Rate (F.A.R.)	0.01%		
1.8	Card Reader False Rejection Rate (F.R.R.)	0.01%		
1.9	The card reader shall be capable of operating under open atmosphere i.e, non closed rooms, corridors and non air conditioned atmosphere.	NA		
1.10	The card reader shall be wall mountable	NA		
1.11	Biometric False Acceptance Rate (F.A.R.)	$\leq 0.00011\%$		
1.12	Biometric False Rejection Rate (F.R.R.)	$\leq 1\%$		
1.13	Biometric verification speed	$\leq 2$ sec		
1.14	Biometric Verification mode	Independently (either face or Card ) or in combination (both face and Card)		
1.15	<b>Communication Port</b> Shall have support for communication interfaces like TCP/IP, RS485, RS232 and Weigand.	NA		
1.16	Display shall be Touch Screen based	NA		
1.17	Camera shall be High Resolution Infrared Camera	NA		
1.18	<b>Audio and Visual indication</b> There should be sufficient indications for knowing the status of the reader, status of the card flashed and door status.	NA		
1.19	<b>Key pad</b> In-built Keypad with 12 keys which should remain for rugged use of 1000 presses a day.	NA		
1.20	<b>Remote upgradation</b> In case of modifications, upgradation of the reader firmware shall happen remotely without dismantling from the location.	NA		
1.21	<b>Message Display</b> The readers display shall be capable of displaying custom messages like greetings, birthday wishes,	NA		
1.22	Card Reader shall support inserting and modifying of card allotment details.	NA		

  
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## Technical Compliance Sheet

### (Access Control System)

SNo.	Technical Specification	Parameter	Yes/No	Remark
1.23	Data shall be automatically downloaded from the Biometric Card Reader and inserted in to the oracle table provided by BHEL.	NA		
1.24	Reader shall be capable of blocking certain cards from reading when needed	NA		
<b>2</b>	<b>Exit Switch and Emergency Manual Lock Release</b>			
2.1	The Exit Switch shall be Press Button type and shall be rugged.	NA		
2.2	Emergency lock release shall be provided and shall be fitted in a box with toughered glass or a box with lock & key.	NA		
<b>3</b>	<b>Card</b>			
3.1	The Access Card supplied by vendor shall be proximity/ smart based	NA		
3.2	Additional card shall be provided by vendor, when required by BHEL at same cost finalized	NA		
<b>4</b>	<b>Management Software</b>			
4.1	A GUI based management software shall be provided with the Biometric Card Reader	NA		
4.2	The vendor shall install and configure the Card Reader management software in any server/PC	NA		
4.3	The Card Reader management software shall be capable of controlling the Biometric Card Reader connected in LAN via IP address.	NA		
4.4	The Card Reader management software shall be capable of generating various type of reports like monthly user wise report, daily user wise report, etc.	NA		
4.5	The Card Reader management software shall be capable of generating the status of card reader	NA		
4.6	The Card Reader management software shall be compatible with the operating system Windows 7, 8 & 10 (32 bit & 64 bit).	NA		
4.7	The Card Reader management software shall be capable of performing all configurations, customizations and message settings of the card reader.	NA		
4.8	The vendor shall ensure timely updates/ upgrades for Card Reader management software.	NA		

  
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**Technical Compliance Sheet**  
**(Fire Alarm System)**

SNo.	Technical Specification	Yes/No	Remark
<b>1</b>	<b>Fire Alarm Panel</b>		
1.1	Fire Alarm Solution supplied by vendor shall be IS -2189 Standard compliant.		
1.2	Shall have Standby battery backup with built in charging.		
1.3	The battey provided for Standby backup shall be of reputed make and of maintenance free type.		
1.4	Shall have Fire/ Fault status in unambiguous colored LED indication.		
1.5	Shall have Switch Mode Power Supply.		
1.6	Shall have Keypad for easy panel operation.		
1.7	Shall have System ON indication.		
1.8	Shall have Main, Standby status indication.		
1.9	Shall have Low Battery visual warning with audible tone.		
1.10	Shall have Relay output for actuators for Fire and Fault.		
1.11	Shall have Lamp Test facility.		
1.12	Shall have Alarm reset facility.		
<b>2</b>	<b>Smoke Detector</b>		
2.1	Operating Voltage : 9 ~ 33V DC		
2.2	Operating Temperature : -10 C to 37.8		
2.3	Humidity : 0 - 95% RH		
2.4	Smoke Sensitivity : (1.9 ± 0.6) % / ft		
<b>3</b>	<b>Conventional Type Horn</b>		
3.1	Slim and Sleek, Wall or Ceiling mountable, Sounder with Back Box.		
3.2	Operating Voltage : 24V DC		
3.3	Sounder type: Piezo electric type		
3.4	Tone type : Fire engine siren		
<b>4</b>	<b>Manual Call Point</b>		
4.1	Break/ Resettable type		
4.2	Operating Voltage : 24V DC		
4.3	Material : Plastic		
4.4	IP rating : IP 50		
<b>5</b>	<b>Cabling</b>		
5.1	Cable shall be of type Armored FRLS cable.		

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**Technical Compliance Sheet**  
**(CCTV System)**

SNo.	Technical Specification	Yes/No	Remark
<b>1</b>	<b>Camera</b>		
1.1	The camera shall be a IR Dome Camera.		
1.2	The camera shall have a minimal resolution of 1.3 MP.		
1.3	The camera IR distance shall be minimum 20 m.		
1.4	All the indoor cameras & control equipment shall be suitable for operation from 10° C to 40° C and relative humidity up to 80% non-condensing.		
<b>2</b>	<b>DVR</b>		
2.1	The DVR shall be minimum a 4 channel DVR.		
2.2	The DVR shall be embedded type or server based.		
2.3	The video output of DVR shall support both HDMI and VGA.		
2.4	The DVR shall have minimum two USB ports.		
2.5	The DVR shall support network interface of type RJ45 10/100 mbps adaptive ethernet port.		
2.6	The Hard Disk shall be of SATA type and shall have a minimum capacity of 4 TB.		
2.7	The Hard Disk Drive shall be of make SEAGATE or WESTERN DIGITAL.		
2.8	Recording mode shall be Manual, Motion Detection, Timing.		
2.9	The System should ensure that once recorded, the video can not be altered, ensuring the		
2.10	System shall provide sufficient storage of all the camera recordings for a period of 30 days or more at better quality.		
2.11	All camera recordings shall have Camera ID & location/area of recording as well as date/time stamp. Camera ID, Location/Area of recording shall be programmable by the system administrator with User ID & Password.		
2.12	System shall facilitate viewing of live and recorded videos by the authorized users present in the LAN.		
<b>3</b>	<b>Video Cabling &amp; Power Supply Unit</b>		
3.1	The cable shall be RG6 Copper Video Cable.		
3.2	Cabling has to be done by the vendor neatly through PVC conduit.		

  
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**Technical Compliance Sheet**  
**(CCTV System)**

SNo.	Technical Specification	Yes/No	Remark
4	<b>Management Software</b>		
4.1	The CCTV management software provided with DVR shall be a GUI based software.		
4.2	The CCTV management software shall be capable to display and manage the entire surveillance system.		
4.3	The software shall be capable of controlling all cameras.		
4.4	The software shall support flexible 1/2/4 Windows Split screen display mode or scroll mode on the PC monitor or on preview monitor as per site requirement.		
4.5	The CCTV application shall allow retrieval of data instantaneously or any date/ time interval chosen through search functionality of the application software.		
4.6	The administrator shall be able to add, edit & delete users with rights to access the system.		
4.7	The system shall provide User activity log (audit trail) with user id, time stamp and action performed, etc.		
4.8	The vendor shall install the CCTV Management Software in more than one machine, if required by BHEL.		

  
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PART – 2


**PRICE BID FORMAT**

Enquiry No. 4501700024 / 03.11.2017

SI No.	Cost Element	Qty.	Price INR	GST %	GST INR	Total in INR
1	Face Based Biometric Access Control System	1				
2	Fire Alarm System	1				
3	CC TV System	1				
4	Comprehensive AMC for 2 Years for above three Items	2				

We agree to all Terms and Conditions of the Enquiry.

(BIDDER SEAL AND SIGNATURE)

  
S. VARADARAJAN  
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