

Corrigendum Dt:12-11-2009

With reference to **Tender No. NIT_7448 (Notification No. ER39072)** published in BHEL website for Proximity Card Fingerprint based Time Attendance System the following changes may please be noted and complied while submitting the offer.

The Annexure-B containing Technical Specification for A:Proximity Card-Fingerprint Biometric Reader and B:Proximity Cards stands replaced as per enclosed Annexure-B-Revised.

All other Terms and Conditions of the tender shall remain unchanged.

Annexure-B-Revised

Technical Specification:

A: Proximity Card-Fingerprint Biometric Reader:

<i>No</i>	<i>Feature</i>	<i>Requirement</i>	<i>Compliance</i>
1	No of Proximity-Finger print Readers	30 sets	
2	Smart Card Reader with Finger print sensor	Contact-less Smart card reader (Mifare Classic Card) with Optical Fingerprint sensor	
3	Memory	1 MB	
4	Read Range	< 5 cm	
5	Reader feature	"IN" & "OUT" mode with control of toggle feature/switch	
6	Local database Storage	Each reader should be capable of storing employee information along with fingerprint templates (min 2000 nos.)	
7	Allowable finger rotation in the reader	+/- 30°	
8	No of Transactions stored	15,000 (Each transaction consists of date, time, IN/OUT, employee ID, reader ID etc.)	
9	Enrollment Time	< 5 seconds	
10	Verification time	< 2 seconds	
11	Communication Interface	Ethernet connectivity RJ 45 -10/100 mbps; Built-in TCP/IP communication protocol for Static IP addressing	
12	LED Indicator / Display	Mode of operation – "IN" or "OUT" reading	
13	LCD Display	Backlit LCD display for easy readability even in dark & day-time. Screen should have space to display Employee details –Name/ Staffno Time & Date	
14	Audio Alert	Beep sound, while on successful	

		completion of a reading/ transaction. Long beep sound for erroneous transaction/ reading	
15	Built-in Power backup	Built in lithium battery back up for 8 hours & Real time clock with calendar	
16	Firmware update	Able to remotely upgrade the software in the reader over Ethernet	
17	Indication for critical function	Power on AC mains/ battery indication, Reader acknowledgment, error indications etc	
18	Authentication mode	Support for Card+Finger / Card only / Finger only. Mode shall be set employee-wise for IN-OUT-wise by Administrator	
19	Fingerprint verification	Verification using template stored in Smart card. Option to verify fingerprint from template stored in reader incase card is not produced	
20	Compliance	Should be CE Certified	
21	Management	Able to remotely configure and monitor the reader via web-based interface	

B: Proximity Cards:

No	Feature	Requirement	Compliance
1	No of Proximity-Cards	1000	
2	Card Type	Contactless Smart Card – Original Mifare Classic 4K confirming to ISO 14443 Type A Standard	
3	Operating Frequency	13.56 MHz	
4	Reading Range	0-5cm	
5	Card Memory	Min 4 KB EEPROM	
6	Card Dimension	85.6 * 54 * 0.76 mm	
7	Card Surface	PVC or equivalent. Matte or glossy finish	
8	Operation Type	Read / Write Card should hold details such as employee ID, finger print template etc	
9	Card Printing	Employee Details with Photo on front (color) & other information on organization on back (black) printed directly on the card	
10	Accessories	Plastic card holder with lanyard for each card.	