



Corrigendum-I

Dt. 24-10-2016

Open Tender Notice No.: - RailTel/OT/MD-AII-COR/PD MUX/2016-17/16 Dated: 06.10.2016

SN No.	Details of Page No. of Tender Document	Description of the matter in the Tender Document	Now to be read as
1	Page No.5	Supply, Installation, wiring, testing and commissioning of 2 MB Programmable Primary Digital Drop Insert Multiplexer as per RDSO Specs. IRS TC-68/2004 (Amnd.I) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete.	Supply, Installation, wiring, testing and commissioning of 2 MB Programmable Primary Digital Drop Insert Multiplexer as per RDSO Specs. IRS TC-68/2004 (Amnd.I) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply unit, remote control supervision facility & all other common cards, accessories, installation materials, manuals etc. including the following combination of interface cards i) 2W/4W E&M /VF Interface card (min. 4 Ckts per card) X 4 Nos. (Total 16 Ckts) ii) Exchange Loop Interface Card (min. 4 Ckts per card) X 1 No. (Total 4 Ckts) iii) Subscriber/Hotline Interface Card (min.4 Ckts per card) X 1 No. (Total 4 Ckts) iv) 64 Kbps G.703 Data Interface card (min.4 Ckts per card) X 1 No. (Total 4 Ckts)
2	Page No.5	Supply, Installation and commissioning of Element Monitoring System (EMS) for Primary Drop-Insert Mux covered at item No. 1 above including associated application software/hardware and accessories including Power supply associated with Item No. 1	Supply, Installation and commissioning of Element Monitoring System (EMS) for Primary Drop-Insert Mux covered at item No. 1 above including associated application software/hardware as per the technical specifications (Chapter-V) and other stipulations of tender document complete with all hardware and accessories (including UPS with 10 hours backup and Printer as per technical specifications of tender document)

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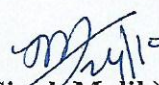
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3	Page No. 20	PD MUX (Item No. 1 of SOR): As per RDSO Specs. IRS TC-68/2004 (Amnd.I) or latest	<p>A) Specification of PD-MUX (Item No. 1 of SOR):</p> <p>1. Technical specification for 2 MB programmable primary digital drop insert multiplexer shall be as per RDSO specification no. IRS TC-68/2004 (Amnd.I) or latest. The PD MUX should have conference facility and should be fully wired and equipped for 30 channels and complete with power supply unit, remote control supervision facility & all other common cards, accessories, installation materials, manuals and Krone type MDF etc.</p> <p>2. The equipment should be suitable for (-) 48 VDC power supply operation and equipped for with combination of one or all of the following cards as per requirement: -</p> <p>a. 2W/4W E&M /VF Interface card (min. 4Ckts per card)</p> <p>b. Exchange Loop Interface Card (min. 4 Ckts per card)</p> <p>c. Subscriber / Hotline Interface Card (min. 4 Ckts per card)</p> <p>d. 64Kbps G.703 Data Interface card (min. 4 Ckts per card)</p> <p>e. V24/RS 232 Data Interface card (min. 2 Ckts per card)</p> <p>f. N*64 kbps Data Interface card (min. 2 Ckts per card)</p>
4	Page No. 20	EMS for PD MUX (Item No. 2 of SOR): As per RDSO Specs. IRS TC-68/2004 (Amnd.I) or Latest.	<p>B) Specification of EMS for PD MUX (Item No. 2 of SOR):</p> <p>1. The Element Management system shall manage the PD MUX equipment mentioned at SOR item 1.</p> <p>2. It should be possible to simultaneously log on to the system through EMS console or Indirectly using any standard PC with Internet browser. In case any client software has to be loaded on the PC, this should be provided with Equipment.</p> <p>3. The minimum hardware requirement of the EMS server to be supplied shall be as under:</p>

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		<p> <u>Processor:</u> Intel Core i3 or better. <u>L2 Cache:</u> 6MB or More <u>RAM:</u> 4 GB DDR2 or better <u>HDD:</u> 500 GB or more SATA HDD <u>Additional features:</u>10/100/1000 Integrated LAN, USB to serial port converter & 4 USB port, On board Video, On board Audio, ACPI V1.0b, PCI 2.2, Keyboard and Optical Scroll Mouse <u>Disk Drive:</u> DVD R/W <u>Monitor:</u> 18.5" LED Monitor <u>Operating System & Anti-Virus:</u> As per Vendor's requirement & Anti Virus Software (latest) and necessary software for EMS. Specification of Printer: Laser Printer model no. HP Laser Jet P1566 or Equivalent: Monochrome Laser Printer with 600x600 dpi(1200 dpi),hi-speed USB port, processor speed 266 MHz, 2MB embedded inside SIP ASIC memory. Specification of UPS with 10 Hrs Back-Up: <u>Items Description:</u> GXT MT 2KVA LB EMERSON make or equivalent on line Double Conversion UPS System. <u>Input</u> 1.Input System:1-Phase, plus PE 2.Rate Voltage:200 VAC/ 230 VAC/240 VAC 3.Voltage Range:(1)160~300 VAC full load (2) 110 VAC half Load 4.Frequency: 50 /60 Hz 5.Power factor: 0.97(conditions: rated voltages, full pure resistive load ,fully charged battery) <u>Output</u> 1.Voltage: 200 VAC/ 230 VAC/240 VAC \pm 2% 2. Line regulation: $\leq 2\%$(0~100% linear load) 3.Voltage harmonic distortion (rate input voltage, rate input frequency): $\leq 3\%$(0~100% linear load) </p>
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			<p> $\leq 6\%$ (0~100% non-linear load) 4. Dynamic Variation: $< 5\%$ in 20 ms 5. Frequency: 50/60 Hz ± 0.2 Hz 6. Frequency range: 46-54 Hz / 56-64 Hz 7. Inverter overload capability: (in Normal mode, 25°C) 108%~ 150% 30 s $> 150\%$ 300ms 8. Crest factor: 3 : 1 9. Bypass operating voltage: 80~264V 10. Transfer Time: Normal \leftrightarrow Battery : 0 ms 11. DC component : ≤ 200 Mv 12. Efficiency: Battery Mode: $\geq 83\%$ (rate battery voltage, full linear load) Normal Mode: $\geq 88\%$ (rated mains voltage, battery fully charged) External Battery Voltage: 36 VDC Charging Current : 4A Battery : Qty x Volts x Capacity: 3X12X100 AH(Amara raja /Exide/HBL/ Microtex or similar) or higher capacity to ensure 10 Hrs back -up Battery : Charging duration: 80 % of battery capacity in 4 hrs(standard type) Protection : IP20 (static state) </p>
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(YP Singh Malik)

General Manager/Project/NR