

management software& hardware and all Accessories required for their

installation in Datacenter at HQ as per TS-11

RailTel Corporation of India Ltd.

Tender No :RAILTEL/ER/MKT/EOI/2023-24/NFR/004 DTD 09.05.2023

Name of Work: Invitation for Expression of Interest

for

Selection of Implementation Partner from RailTel Empanelled Business Associate for exclusive PRE-BID TEAMING ARRANGEMENT for "Provision of Video Surveillance System at 340 (D & E Category) stations of N.F. Railway under Provision of VSS at 1105 (D&E Category) stations of Eastern Region".

PRICE BID Name and Address of Bidder: GST Unit Unit Rate SN Item description Qty Total value GST Amount Grand Total Amount Percentage Schedule A1-CCTV Items Supply, Installation, Testing and commissioning of Full HD bullet type IP colour camera along with housing and mount and all accessories required 3060 Nos ₹ 0.00 ₹ 0.00 ₹ 0.00 for installation purposes along with 128 GB SD/SDHC/ SDXC memory card or higher as per technical specification under TS-1(a) Supply, Installation, Testing and commissioning of Full HD P/T/Z type IP colour camera along with housing and mount and all accessories required 340 Nos ₹ 0.00 ₹ 0.00 ₹ 0.00 for installation purposes along with 128 GB SD/SDHC/ SDXC memory card or higher as per technical specification under TS-1(b) Supply, Installation, Testing and commissioning of 4K UHD bullet type IP colour camera TYPE-A (with image sensor 1/1.8") along with housing and ₹ 0.00 ₹ 0.00 ₹ 0.00 mount and all accessories required for Installation purposes along with 128 80 Nos GB SD/SDHC/SDXC memory card or higher as per technical specification under TS-1(c) Supply and Installation of Digital Key-Board (joystick) and all accessories compatible with P/T/Z cameras under item A-1 (b) above as per Technical 61 ₹ 0.00 ₹ 0.00 ₹ 0.00 Nos Specification under TS-2 Supply, Installation, Testing and commissioning of PC Workstation for viewing, monitoring and system management including 24" 4K UHD LED ₹ 0.00 ₹ 0.00 ₹ 0.00 monitors with mouse & mechanical keyboard, all required licensed software 113 Nos windows 10 pro or latest operating system, MS office, antivirus (3 years validity) with 1000 VA UPS as per Technical specification under TS-3 Supply and Installation of Full HD or Higher (4K) large format Display Industrial Monitor (55" or larger) with all required cables convertors & 226 Nos ₹ 0.00 ₹ 0.00 ₹ 0.00 remote as per Technical Specification TS-4 Supply, Installation, Testing and Commissioning of Panic Button at each 1020 Nos ₹ 0.00 ₹ 0.00 ₹ 0.00 platform of the stations as per TS-5 Supply, Installation, Testing and Commissioning of Video Management and Recording server hardware and all accessories required for installation ₹ 0.00 ₹ 0.00 31 Nos ₹ 0.00 purposes at RPF Chowki. Technical specification under TS-6(i) Supply, Installation, Testing and Commissioning of AI enabled Video Analytic server hardware and all accessories required for installation 100 Nos ₹ 0.00 ₹ 0.00 ₹ 0.00 purposes at RPF Chowki under TS-6(ii) Supply, Installation, Testing and Commissioning of FRS server hardware and all accessories required for installation purposes at RPF Chowki as per 20 Nos ₹ 0.00 ₹ 0.00 ₹ 0.00 Technical specification under TS-6 (iii) Supply, Installation, Testing and Commissioning of FRS server hardware ₹ 0.00 ₹ 0.00 ₹ 0.00 and all accessories required for installation purposes at RPF Chowki as per Nos Technical specification under TS-6 (iii) Supply, Installation, Testing and Commissioning of Graphical user Interface software, Video Management System Software and Video Recording Software (per camera basis for item A1-a (Full HD camera), A1-b (PTZ Camera) & A1-c (4K UHD Camera) for the server hardware 3480 Nos ₹ 0.00 ₹ 0.00 ₹ 0.00 under item 6(i) as per TS-7(i) & Supply , Installation testing & commissioning of Remote Viewing on Web and Mobile App & Command and Control center software at Server Hardware at HQ as per TS-7(ii) Supply, Installation, Testing and Commissioning of Video Analytic server 13 3060 Nos ₹ 0.00 ₹ 0.00 ₹ 0.00 software (per camera basis for Full HD camera) as per TS-8 Supply, Installation, Testing and Commissioning of Video FRS server 80 Nos ₹ 0.00 ₹ 0.00 ₹ 0.00 software (per camera basis for 4K Camera) as per TS-9 Supply, Installation, Testing and Commissioning of NMS at HQ, with NMS ₹ 0.00 ₹ 0.00 ₹ 0.00 Software with all required modules and specified Hardware & Display Nos system as per TS-10 Supply, Installation, Testing and Commissioning of NGFW along with

1 Nos

₹ 0.00

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₹ 0.00

Supply, Installation, Testing and Commissioning of External Storage System for 30 days recording at station/RPF/GRP Than Post slong with all accessories required for installation purposes (The space requirement is after RAID6). The storage shall be external for server based storage shall be provided with Capacity in as required at RPF post clustering as per TS-12 Sparse 30 (10% of supply against item 1(a) to 1(c) above Space of 1(c) (20 (10% as per TS-16)) Sparse of 1(c) (20 (10% a	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
accessories required for installation purposes (The space requirement is after RAID6). The storage shall be external for server based solution as per clause 12.0 of RDSO Specification No. RDSOSPNCTO(\$5/2021 version 6.0 for 61 RPF location, 6.1 external storage shall be provided with Capacity in as required at RPF post clustering as per TS-12 Sparse (10% of supply against item 1(a) to 1(c) above 18 Sparse of 1(a) (a) 10% as per TS-1(a) 19 Sparse of 1(b) (a) 10% as per TS-1(a) 20 Sparse of 1(b) (a) 10% as per TS-1(b) 30 Sparse of 1(b) (a) 10% as per TS-1(b) 31 Supply, Installation, Testing and commissioning of Type-II switches and all accessories required for their installation (Aggregation switch) as per TS-13 22 Supply, Installation, Testing and commissioning of Type-II switches and all accessories required for their installation (Aggregation switch) as per TS-1 31 Supply, Installation, Testing and commissioning of Type-II switches and all accessories required for their installation (Aggregation switch) as per TS-1 32 Supply, Installation, Testing and commissioning of Type-II switches and all accessories required for their installation (Aggregation switch) as per TS-1 34 Supply, Installation, Testing and commissioning of Type-II writches and all accessories required for their installation of the per testing the	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
1	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Southing as per clause 12.0 of RDSO Specification No. RDSOS PRICTOG-5020 versions of 0. for 61 RPT location, of external storage shall be provided with Capacity in as required at RPF post clustering as per TS-12 Spares of [10% of supply against item I (a) to I (c) above \$0.00	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation (Layer 2 Switch) as per TS-12 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation as per TS-16 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation (Layer 2 Switch) as per TS-15 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation (Layer 2 Switch) as per TS-13 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation (Layer 2 Switch) as per TS-13 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation (Layer 2 Switch) as per TS-14 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation (Layer 2 Switch) as per TS-15 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation (Layer 2 Switch) as per TS-15 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation Cayer 2 Switch) as per TS-16 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation as per TS-16 Supply Installation, Testing and commissioning of Type-III Core switches and all accessories required for their installation as per TS-16 Supply Installation, Testing and commissioning of Type-III Core switches and all accessories required for installation as per TS-17 Supply Installation Testing and commissioning of Type-III One of the III Switches and III Installation as per TS-17 Supply Installation Testing and commissioning of Type-III Switches and III Installation Testing and Commissioning of Type-III S	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Supply Installation, Testing and commissioning of Type-II switches and all accessories required for their installation, (Agergation switch) as per TS-14	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Spares (a) 10% of supply against item 1(a) to (c) above	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
19 Spare of I(t)	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Sparse of 1(c) @ 10% as per TS-1(c) 11 Nos. ₹ 0.00 ₹ 0.00 ₹ 0.00	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Supply Installation, Testing and commissioning of Type-II Switches and all accessories required for their installation (Layer 2 Switch) as per TS-13	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Supply, Installation, Testing and commissioning of Type-II switches and all accessories required for their installation (Field Switches) as per TS-13 22 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation (Layer 2 Switch) as per TS-14 32 supply, Installation, Testing and commissioning of Type-III switches and all accessories required for their installation (Aggregation switch) as per TS-15 23 Supply, Installation, Testing and commissioning of Type-III switches and all accessories required for their installation. (Aggregation switch) as per TS-15 24 Supply, Installation, Testing and commissioning of Type-III switches and all accessories required for their installation as per TS-16 25 Supply, Installation, Testing and commissioning of Type-IV (Core Switches) and all accessories required for their installation as per TS-16 35 Supply of STP CAT-6 cable and all the accessories required for installation as per TS-17 30 Supply of STP CAT-6 cable and all the accessories required for installation as per TS-17 30 Supply of I2 Core metal strengthened outdoor unarmored optic fibre cable and all the accessories required for installation purpose of Servers, Switches, LIU, External storage etc. 31 Supply and installation of 19" 42U Racks and all accessories required for installation purpose of Servers, Switches, LIU, External storage etc. 30 Supply and installation of 19" BACK and all accessories required for installation purpose of Field switches' LIU etca aper TS-19(I) 30 Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation purpose of field switches' LIU etca aper TS-19(I) 30 Supply and Installation as per TS-20 30 Supply and Installation as per TS-21 30 Supply and Installation as per TS-21 31 Supply of Installation as per TS-21 32 Spare of item No.1-@ 10% 33 Spare of item No.2-@ 10% 34 Spare of item No.5-@ 10% 35 Spare of item No.5-@ 10% 36 Spare of item No.5-@ 10% 37 Spare of item No.5-@	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Supply, Installation, Testing and commissioning of Type-I switches and all accessories required for their installation (Field Switches) as per TS-13 22 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation (Layer 2 Switch) as per TS-14 33 supply, Installation, Testing and commissioning of Type-III switches and all accessories required for their installation (Aggregation switch) as per TS-15 24 Supply, Installation, Testing and commissioning of Type-III switches and all accessories required for their installation. (Aggregation switch) as per TS-15 25 SIPP-BX (IOKM) Single Fiber as per TS-32 26 Supply, Installation, Testing and commissioning of Type-IV (Core Switches) and all accessories required for their installation as per TS-16 27 SIPP-BX (IOKM) Single Fiber as per TS-32 28 Supply of STP CAT-6 cable and all the accessories required for installation as per TS-17 30 Supply of 12 Core metal strengthened outdoor unarmored optic fibre cable and all the accessories required for installation as per TS-18 30 Supply and installation of 19" 42U Racks and all accessories required for installation purpose of Servers, Switches, LIU, External storage etc including 17" FHD LED monitor with mouse and keyboard & KVM switch with Windows operating system suitable for server, for server rack as per Technical specification under TS-19 (I) 30 Supply and installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LIU etca sper TS-19(I) 30 Supply and installation of 2F Fibre FMS (SC-APC Type) and all accessories required for installation purpose of field switches/ LIU etca sper TS-19(I) 30 Supply and installation as per TS-20 30 Supply and installation as per TS-20 30 Supply and installation as per TS-21 30 Supply and installation as per TS-20 31 Spare of item No.1 @ 10% 32 Spare of item No.3 @ 10% 33 Spare of item No.4 @ 10% 34 Spare of item No.5 @ 10% 35 Spare of item No.5 @ 10% 36 Spare of item No.5 @ 1	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
21 accessories required for their installation (Field Switches) as per TS-13 22 Supply Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation (Layer 2 Switch) as per TS-14 23 Supply, Installation, Testing and commissioning of Type-III Switches and all accessories required for their installation. (Aggregation switch) as per TS-1 24 Supply, Installation, Testing and commissioning of Type-IV (Core Switches) and all accessories required for their installation as per TS-16 25 SPP-BX (10KM) Single Fiber as per TS-32 26 Supply Single Fiber as per TS-32 27 Supply of SIP CAT-6 cable and all the accessories required for installation as per TS-17 28 Supply of 12 Core metal strengthened outdoor unarmored optic fibre cable (TTU-TG-652-D) and all the accessories required for installation as per TS-18 Supply and installation of 19" 42U Racks and all accessories required for installation purpose of Servers, Switches, LU, External storage etc including 17" FHD LED monitor with mouse and keyboard & KVM switch With Windows operating system suitable for server, for server rack as per Technical specification under TS-19 (1) 29 Supply and Installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LU cet as per TS-19 (II) 29 Supply and Installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LU cet as per TS-19 (II) 29 Supply and Installation of 19" 9U Racks and all accessories required for installation and purpose of field switches/ LU cet as per TS-19 (II) 29 Supply and Installation of 19" 9U Racks and all accessories required for installation and purpose of field switches/ LU cet as per TS-19 (II) 29 Supply and Installation of 19" 9U Racks and all accessories required for installation and TS-10 (II) 29 Supply and Installation of 19" 9U Racks and all accessories required for installation and TS-10 (II) 30 Supply and Installation of 19" 9U Racks and all accessories required	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Supply Installation, Testing and commissioning of Type-II switches and all accessories required for their installation. (Aggregation switch) as per TS-15 340 Nos. \$\frac{3}{0.00}	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
23 accessories required for their installation. (Aggregation switch) as per TS- 15 24 Supply, Installation, Testing and commissioning of Type-IV (Core Switches) and all accessories required for their installation as per TS-16 25 SFP-BX (10KM) Single Fiber as per TS-32 26 Supply of STP CAT-6 cable and all the accessories required for installation as per TS-17 27 Supply of 12 Core metal strengthened outdoor unarmored optic fibre cable (17 (17 U-TG-652-D) and all the accessories required for installation as per TS-18 28 Supply and installation of 19" 42 U Racks and all accessories required for installation as per TS- 18 Supply and installation of 19" 42 U Racks and all accessories required for installation purpose of Servers, Switches, LIU, External storage et including 17" FHD LED monitor with mouse and keyboard & KVM switch with Windows operating system suitable for server, for server rack as per Tsethnical specification under Ts-19 (1) 29 Supply and Installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LIU etc as per TS-19 (II) 29 Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 30 Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-21 31 Supply and Installation as per TS-21 32 Sparce (item No.1 c. 10% 33 Sparce of item No.2 c. 200% 34 Sparce of item No.3 - 200% 35 Sparce of item No.3 - 200% 36 Sparce of item No.5 - 200% 37 Sparce of item No.5 - 200% 38 Sparce of item No.5 - 200% 39 Sparce of item No.5 - 200% 30 Sparce of item No.5 - 200% 31 Sparce of item No.5 - 200% 32 Sparce of item No.5 - 200% 33 Sparce of item No.5 - 200% 34 Sparce of item No.5 - 200% 35 Sparce of item No.5 - 200% 36 Sparce of item No.5 - 200% 37 Sparce of item No.5 - 200% 38 Sparce of item No.5 - 200% 39 Sparce of item No.5 - 200% 30 Sparce of item No.5 - 200% 31 Sparce of item No.5 - 200% 32 Sparce of item No.5 - 200% 33 Sparce of item No.5 - 200% 34 Sparce of item No.5	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Supply, Installation, Testing and commissioning of Type-IV (Core Switches) and all accessories required for their installation as per TS-16 Supply of STP CAT-6 cable and all the accessories required for installation as per TS-17 Supply of STP CAT-6 cable and all the accessories required for installation as per TS-17 Supply of 12 Core metal strengthened outdoor unarmored optic fibre cable (ITU-TG-652-D) and all the accessories required for installation as per TS-18 Supply and installation of 19" 42U Racks and all accessories required for installation purpose of Servers, Switches, LIU, External storage etc including 17" FHD LED monitor with mouse and keyboard & KVM switch with Windows operating system suitable for server, for server rack as per Technical specification under TS-19 (I) Supply and Installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LIU etc as per TS-19(II) Supply and Installation of 12" Fibre FMS (SC-APC Type) and all accessories required for installation of 16" suitablation of 15" fibre FMS (SC-APC Type) and all accessories required for installation of 16" suitablation of 15" fibre FMS (SC-APC Type) and all accessories required for installation of 16" suitablation of 15" fibre FMS (SC-APC Type) and all accessories required for installation of 16" fibre FMS (SC-APC Type) and all accessories required for installation as per TS-21 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 16" fibre FMS (SC-APC Type) and all accessories required for installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 24 Fibre FMS (SC-APC Type) and all accessories required for inst	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Switches) and all accessories required for their installation as per TS-16 SPF-BX (10KM) Single Fiber as per TS-32 1360 Nos. ₹ 0.00 ₹ 0.00	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
Switches) and all accessories required for their installation as per TS-16 Supply of STP CAT-6 cable and all the accessories required for installation as per TS-17 Supply of STP CAT-6 cable and all the accessories required for installation as per TS-17 Supply of 12 Core metal strengthened outdoor unarmored optic fibre cable (TTU-TG-652-D) and all the accessories required for installation of 19" 42U Racks and all accessories required for installation purpose of Servers, Switches, LIU, External storage etc including 17" FHD LED monitor with mouse and keyboard & KVM switch with Windows operating system suitable for server, for server rack as per Technical specification under TS-19 (I) Supply and Installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LIU etc as per TS-19(II) Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 34 Fibre FMS (SC-APC Type) and all accessories required for installation of 34 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 34 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 34 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 34 Fibre FMS (SC-APC Type) an	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
26 Supply of STP CAT-6 cable and all the accessories required for installation as per TS-17	₹ 0.00 ₹ 0.00 ₹ 0.00 ₹ 0.00									
20 Supply and installation of 19 "42U Racks and all accessories required for installation purpose of Servers, Switches, LIU, External storage etc including 17" FHD LED monitor with mouse and keyboard & KVM switch with Windows operating system suitable for server, for server rack as per Technical specification under TS-19 (I) 29 Supply and Installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LIU etc as per TS-19(II) 30 Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 31 Supply and Installation as per TS-21 Spares @ 10% of supply against item 1 to 4 and 5(a) & (c) above Nos. 32 Spare of item No.1 - @ 10% 8 Nos. ₹ 0.00 ₹ 0.00 33 Spare of item No.3 - @ 10% 10% 8 Nos. ₹ 0.00 ₹ 0.00 34 Spare of item No.3 - @ 10% 10%	₹ 0.00 ₹ 0.00 ₹ 0.00									
Supply of 12 Core metal strengthened outdoor unarmored optic fibre cable (TTU-TG-652-D) and all the accessories required for installation as per TS-18 Supply and installation of 19" 42U Racks and all accessories required for installation purpose of Servers, Switches, LIU, External storage etc including 17" FHD LED monitor with mouse and keyboard & KVM switch with Windows operating system suitable for server, for server rack as per Technical specification under TS-19 (I) Supply and Installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LIU et as per TS-19(II) Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-21 Spares @ 10% of supply against item 1 to 4 and 5(a) & (c) above Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-21 Spares @ 10% of supply against item 1 to 4 and 5(a) & (c) above Supply and Installation as per TS-20 Spares @ 10% of supply against item 1 to 4 and 5(a) & (c) above Nos. Supply and Installation as per TS-21 Spare of item No.1 - @ 10% Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-21 Spares @ 10% of supply against item 1 to 4 and 5(a) & (c) above Nos. Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 24 Fibre FMS (SC-APC Type) and all accessories and supply against item 1 to 4 and 5(a) & (c) above TO Nos. Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories and acce	₹ 0.00 ₹ 0.00									
18	₹ 0.00 ₹ 0.00									
installation purpose of Servers, Switches, LIU, External storage etc including 17" FHD LED monitor with mouse and keyboard & KVM 61 Nos. ₹ 0.00 ₹ 0.00 ₹ 0.00	₹ 0.00									
28 including 17" FHD LED monitor with mouse and keyboard & KVM switch with Windows operating system suitable for server, for server rack as per Technical specification under TS-19 (I) 29 Supply and Installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LIU etc as per TS-19(II) 30 Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 31 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-21 Spares @ 10% of supply against item 1 to 4 and 5(a) & (c) above 32 Spare of item No.1 - @ 10% 33 Spare of item No.2 - @ 10% 34 Spare of item No.3 - @ 10% 35 Spare of item No.3 - @ 10% 36 Spare of item No.4 - @ 10% 37 Spare of item No.5 - @ 10% 38 Spare of item No.5 - @ 10% 39 Spare of item No.1 - @ 10% 30 Spare of item No.2 - @ 10% 31 Spare of item No.3 - @ 10% 32 Spare of item No.4 - @ 10% 33 Spare of item No.5 - @ 10% 34 Spare of item No.5 - @ 10% 35 Spare of item No.5 - @ 10% 36 Spare of item No.5 - @ 10% 37 Spare of item No.5 - @ 10% 38 Spare of item No.5 - @ 10% 39 Spare of item No.5 - @ 10% 30 Spare of item No.5 - @ 10% 31 Spare of item No.5 - @ 10% 32 Spare of item No.5 - @ 10% 33 Spare of item No.5 - @ 10% 34 Spare of item No.5 - @ 10% 35 Spare of item No.5 - @ 10% 36 Spare of item No.5 - @ 10% 37 Spare of item No.5 - @ 10% 38 Spare of item No.5 - @ 10% 39 Spare of item No.5 - @ 10% 30 Spare of item No.5 - @ 10% 31 Spare of item No.5 - @ 10% 32 Spare of item No.5 - @ 10% 33 Spare of item No.5 - @ 10% 34 Spare of item No.5 - @ 10% 35 Spare of item No.5 - @ 10% 36 Spare of item No.5 - @ 10% 37 Spare of item No.5 - @ 10% 38 Spare of item No.5 - @ 10% 39 Spare of item No.5 - @ 10% 30 Spare of item No.5 - @ 10% 31 Spare of item No.5 - @ 10% 32 Spare of item No.5 - @ 10% 33 Spare of item No.5 - @ 10% 34 Spare of item No.5 - @ 10% 35 Spare of item No.5 - @ 10% 36 Spare of item No.5 - @ 10% 37 Spare of item No.5 -	₹ 0.00									
Switch with Windows operating system suitable for server, for server rack as per Technical specification under TS-19 (I) Supply and Installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LIU etc as per TS-19(II) Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all a	₹ 0.00									
Supply and Installation of 19" 9U Racks and all accessories required for installation purpose of field switches/ LIU etc as per TS-19(II) 680 Nos. ₹ 0.00 ₹ 0.00	₹ 0.00									
Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-21 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-21 Spares @ 10% of supply against item 1 to 4 and 5(a) & (c) above Nos. ₹ 0.00 ₹ 0.00	₹ 0.00									
Supply and Installation of 12 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-20 Supply and Installation as per TS-20 340 Nos. ₹ 0.00										
Supply and Installation as per TS-20 Supply and Installation of 24 Fibre FMS (SC-APC Type) and all accessories required for installation as per TS-21 Supply against item 1 to 4 and 5(a) & (c) above Nos.										
Solution State	₹ 0.00									
Spares @ 10% of supply against item 1 to 4 and 5(a) & (c) above Nos. ₹ 0.00 ₹ 0.00 32 Spare of item No.1- @ 10% 70 Nos. ₹ 0.00 ₹ 0.00 33 Spare of item No.2- @ 10% 8 Nos. ₹ 0.00 ₹ 0.00 34 Spare of item No.3- @ 10% 36 Nos. ₹ 0.00 ₹ 0.00 35 Spare of item No.4- @ 10% 1 Nos. ₹ 0.00 ₹ 0.00 36 Spare of item No.5(a) - @ 8% 138 Nos. ₹ 0.00 ₹ 0.00 TOTAL OF SCHEDULE A2	₹ 0.00									
33 Spare of item No.2 - @ 10% 8 Nos. ₹ 0.00 ₹ 0.00 34 Spare of item No.3 - @ 10% 36 Nos. ₹ 0.00 ₹ 0.00 35 Spare of item No.4 - @ 10% 1 Nos. ₹ 0.00 ₹ 0.00 36 Spare of item No.5(a) - @ 8% 138 Nos. ₹ 0.00 ₹ 0.00 TOTAL OF SCHEDULE A2										
34 Spare of item No.3 - @ 10% 36 Nos. ₹ 0.00 ₹ 0.00 35 Spare of item No.4- @ 10% 1 Nos. ₹ 0.00 ₹ 0.00 36 Spare of item No.5(a) - @ 8% 138 Nos. ₹ 0.00 ₹ 0.00 TOTAL OF SCHEDULE A2 Schedule A3-Power Supply & Other Items	₹ 0.00									
35 Spare of item No.4- @ 10%	₹ 0.00									
36 Spare of item No.5(a) - @ 8% 138 Nos. ₹ 0.00 ₹ 0.00 ₹ 0.00 TOTAL OF SCHEDULE A2	₹ 0.00									
Schedule A3-Power Supply & Other Items	₹ 0.00									
	₹ 0.00									
	Schodule 43-Power Supply & Other Items									
Supply of PVC insulated 3 core 4 Sq mm, 12 AWG, 1.1 KV grade outdoor										
supply of PV. Insulated 3 core 4 Sq mm, 12 AWG, 1.1 KV grade outdoor 37 strengthened Copper Cable for UPS supply distribution (as per BIS/ISI standards) and all the accessories required for installation as per TS-22	₹ 0.00									
38 Supply and Installation of 3 KVA with 1 hr backup Online UPS and all 279 Nos. ₹0.00	₹ 0.00									
accessories required for installation as per TS-23										
139 required for installation as per TS-24	₹ 0.00									
40 Supply, Installation & Commissioning of basic earthing kit as per RDSO Society of the commissioning of basic earthing kit as per RDSO 61 Nos. ₹ 0.00	₹ 0.00									
Specification no. RDSO/SPN/197/2016 Ver1 as per TS-25										
Supply of GI pipes (50mm dia-3.65mm thick) as per IS- 1239, Pt1, medium grade, for laying of cable to the PF shelter from ground level. Entry										
41 of cables will be advised by the site in charge of the Railway and 3400 Mtr ₹ 0.00	₹ 0.00									
extending by suitable dia HDPE/Flexible PVC pipe on either side as										
required as per TS-26										
Supply and Installation of ACDB for AC distribution Box with Lock and										
42 Supply and instantantion of NCBs of various ratings as per TS-27 key arrangements and ISI Mark MCBs of various ratings as per TS-27 ₹ 0.00	₹ 0.00									
Supply and fixing of furniture for each Workstation quoted under A-1, item										
43 no.3 i.e. one table (Model:T-105 Make: Godrej or similar), and two chairs 113 Nos. ₹ 0.00	₹ 0.00									
(Model: CH-1007 Make: Godrej or similar) as per TS-28										
44 Supply of PVC Flexible pipe of 32 mm (This includes all materials, clamps etc required for laying, fixing and clamping). as per TS-29 17000 Mtr ₹ 0.00										
Supply of 22 mm DVC Conduit nine ISI Mark with all accessories for laying	₹ 0.00									
45 of cables as per TS-30 170000 Mir 0.00										
Supply of 40 mm dia. HDPE pipe with accessories on wall or structure/ in	₹ 0.00									
46 Trench/HDD etc. along with all accessories required for fixing, clamping, cutting as per TS-31 ₹ 0.00 Mtr ₹ 0.00	₹ 0.00									
47 Supply and Installation of bracket/fixture/angle for fixing of camera at 3480 Nos ₹0.00										
stations	₹ 0.00									
TOTAL OF COHEDINE 42	₹ 0.00									
TOTAL OF SCHEDULE A3	₹ 0.00									
TOTAL OF SCHEDULE A3 Schedule B1-Other items	₹ 0.00									

48	Blowing, Pulling, Laying of STP CAT-6, Optic fiber (Including Splicing) Power Copper cable as supplied against item no A2(6), A2(7), A3(1), A2(8) and A2(9)	510000	Mtr		₹ 0.00		₹ 0.00	₹ 0.00
	TOTAL OF SCHEDULE B1							₹ 0.00
GRAND TOTAL								₹ 0.00