

SECTION-III

Special terms and conditions of contract

1. GENERAL:

Detailed hereinafter is an outline of the works expected from the contractor. It is not the intention to specify all the minute details of the services/works expected. All the items of works required for the complete work of **“Supply, Installation and Commissioning of CCTV Surveillance System at DBRG Coaching Depot and TSK Coaching Depot of TSK Division”** are deemed to have been included in the scope and details of work of Tender document whether explicitly stated or not. The contractor is expected, to render all necessary and complete services and execute all works required in every respect to ensure smooth and timely planning and execution of the contract work.

2. A) DEFINITIONS:

Throughout this tender document the following definitions shall apply: -

- (i) “Railway” shall mean the President of the Republic of India or the Administrative Officers of the Railway or Successor Railway authorized to deal with any matters, which these presents are concerned on his behalf.
- (ii) “General Manager” shall mean the Officer-in-Charge of the general superintendence and control of the Zonal Railway/Production Units and shall also include Addl. General Manager, the General Manager (Construction) and shall mean and include their successors, of the Successor Railway.
- (iii) “Chief Engineer” shall mean the Officer in charge of the Engineering Department of Railway and shall also include the Chief Engineer (Construction), Chief Electrical Engineer, Chief Electrical Engineer (Construction), Chief Signal & Telecom Engineer, Chief Signal & Telecom Engineer (Construction), Chief Mechanical Engineer and shall mean and include their successors of the Successor Railway.
- (iv) “Divisional Railway Manager” shall mean the Officer in charge of a Division of the Zonal Railway and shall mean and include the Divisional Railway Manager of the Successor Railway.
- (v) “Engineer” shall mean the Divisional Engineer or the Executive Engineer, Divisional Signal & Telecom Engineer, Divisional Electrical Engineer, Divisional Mechanical Engineer in executive charge of the works and shall include the superior officers of Open Line and Construction organizations on the Railway of the Engineering, Signal & Telecom, Mechanical and Electrical Departments, i.e. the Senior Divisional Engineer/Deputy Chief Engineer/Chief Engineer, Senior Divisional Signal & Telecom Engineer / Dy. Chief Signal & Telecom Engineer, Senior Divisional Electrical Engineer / Deputy Chief Electrical Engineer, Senior Divisional Mechanical Engineer and shall mean & include the Engineers of the Successors Railway.
- (vi) "Engineer's Representative" shall mean the Assistant Engineer, Assistant Signal & Telecommunication Engineer and Assistant Electrical Engineer, Assistant Mechanical Engineer in direct charge of the works and shall include any Sr. Section/Junior Engineer of Civil Engineering/ Signal and Telecommunication Engineering/Mechanical Engineering/Electrical Engineering Departments appointed by the Railway and shall mean and include the Engineer's Representative of the Successor Railway.
- (vii) "Contractor" shall mean the Person/Firm/Co-operative Society or Company whether incorporated or not who enters into the contract with the Railway and shall include their executors, administrators, successors and permitted assigns.
- (viii) "Contract" shall mean and include the Agreement of Work Order, the accepted Schedule of Rates or the Schedule or Rates of Railway modified by the tender percentage for items of works quantified, or not quantified, the Standard General Conditions of Contract, the Special Conditions of Contracts, if any; the Drawing, the Specifications, the Special Specifications, if any and Tender Forms, if any.
- (ix) "Works" shall mean the works to be executed in accordance with the contract.

- (x) "Specifications" shall mean the Standard Specifications for Materials & Works of Railway as specified by Railway under the authority of the Chief Engineer or as amplified, added to or superseded by Special Specifications, if any.
- (xi) "Schedule of Rates of the Railway" shall mean the Schedule of Rates issued under the authority of the Chief Engineer from time to time.
- (xii) "Drawing" shall mean the maps, drawings, plans and tracings or prints there of annexed to the contract and shall include any modifications of such drawings and further drawings as may be issued by the Engineer from time to time.
- (xiii) "Constructional Plant" shall mean all appliances or things of whatsoever nature required for the execution, completion or maintenance of the works or temporary works (as hereinafter defined) but do not include materials or other things intended to form or forming part of the permanent work.
- (xiv) "Temporary Works" shall mean all temporary works of every kind required for the execution completion and/or maintenance of the works.
- (xv) "Site" shall mean the lands and other places on, under, in or through which the works are to be carried out and any other lands or places provided by the Railway for the purpose of the contract.
- (xvi) "Period of Maintenance" shall mean the specified period of maintenance from the date of completion of the works, as certified by the Engineer.
- (xvii) 'Contractor's authorized Engineer' shall mean a graduate Engineer having more than 3 years experience in the relevant field of construction work involved in the contract, duly approved by Engineer.
- (xviii) "GCC" shall mean Indian Railways Standard General Conditions of Contract, April 2022 and all its latter amendments.

3. LEGAL JURISDICTION:

The court of the place where the agreement, i.e. Tinsukia, is signed shall alone have the jurisdiction to decide all legal disputes arising out of the contract.

4. Fraudulent practices:

If the tenderer deliberately gives wrong information in his tender or creates circumstances for the acceptance of his tender or documents submitted by tenderer are found to be tempered before award of the tender, earnest money deposit will be forfeited and such tender will be rejected. In case such irregularity is detected after award of work, full amount of security deposit will be forfeited & performance guarantee will be encashed. These actions are without prejudice to any other rights or remedies available with the Railways in such cases.

5. Dispute:

Any dispute arising out of interpretation of Drawings, specifications or any terms and conditions including special condition of the contract or arising during the execution of the work/contract, shall be settled by Railway and Railway's decision shall be final and binding on the contractor/tenderer(s).

6. Applicability of GCC:

These Special conditions of contract (SCC) (along with Specifications of work and other conditions as contained in this Tender Document) shall be read together with the Indian Railway Standard General Conditions of Contract (GCC). Should there be any conflict between the provisions of the SCC (along with Specifications of work and other conditions as contained in this tender document) hereof and that of the GCC, the import of the former shall prevail over the latter.

7. Security Deposit shall be applicable as per clause 16(1) of GCC (Works)-April-2022.

8. Performance Guarantee:

The procedure for obtaining Performance Guarantee is outlined below:

- (a) The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and upto 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21 (Twenty one) days, i.e. from 22nd day

after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day.

In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit Bid Security and other dues payable to the contractor against that particular contract, subject to maximum of PG amount. In case a tenderer has not submitted Bid Security on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect.

The failed Contractor shall be debarred from participating in re-tender for that work.

- (b) The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 5% of the original contract value and additional Performance Guarantee as per clause 8 (h):-
- (i) A deposit of Cash;
 - (ii) Irrevocable Bank Guarantee;
 - (iii) Insurance Surety Bond as per **Appendix-9** of SECTION-II: TENDER FORMS (Second Sheet).

Note:

In case of extension of Date of Completion, selected bidder needs to submit extended Insurance Surety Bond/Fresh Insurance Surety Bond/Fresh Performance Security, in any form as given above, before expiry of existing Insurance Surety Bond.

- (iv) Government Securities including State Loan Bonds at 5% below the market value;
 - (v) Pay Orders and Demand Draft tendered by any Scheduled Commercial Bank of India;
 - (vi) Guarantee Bonds executed or Deposits Receipts tendered by any Scheduled Commercial Bank of India;
 - (vii) Deposit in the Post Office Saving Bank;
 - (viii) Deposit in the National Savings Certificates;
 - (ix) Twelve years National Defence Certificates;
 - (x) Ten years Defence Deposits;
 - (xi) National Defence Bonds and
 - (xii) Unit Trust Certificates at 5% below market value or at the face value whichever is less. Also, FDR in favour of FA&CAO (free from any encumbrance) may be accepted.
- (c) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued but before signing of the contract agreement. This P.G. shall be initially valid upto the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days.
- (d) The value of PG to be submitted by the Contractor is based on original contract value and shall not change due to subsequent variation(s) in the original contract value.
- (e) The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily.
- (f) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed.
- (g) The Engineer shall not make a claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:

- (i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.
 - (ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.
 - (iii) The Contract being determined or rescinded under clause 62 of these conditions.
- (h) If a tender is accepted on the quoted rates of bidder which is below the advertised tender value, an additional performance security shall be submitted by the bidder as below:

Bid quoted in % of advertised cost	Additional Performance Guarantee (%)
Below 0-5% (inclusive)	Nil
Below 5%	5%

Note: In case of PG is submitted as Bank Guarantee, it is to be ensured that the following details must be entered into SFMS while issuing Bank Guarantees by vendors/contractors in favour of Railways:

IFSC CODE	SBIN000RAIL
IFSC TYPE	BRANCH
BANK NAME	STATE BANK OF INDIA
BRANCH NAME	RAIL
CITY NAME	NAVI MUMBAI
ADDRESS	SECTOR-11, CBD BELAPUR, NAVI MUMBAI
DISTRICT	NAVI MUMBAI
STATE	MAHARASHTRA
BG ENABLED	YES

9. **Price Variation Clause (PVC):** Price Variation shall not be applicable to this work.
10. Variation in quantities specified in contracts shall be applicable as per GCC (Works)-April 2022 and MSOP with latest guidelines/correction issued from Railway Board.
11. All the materials, tools and other required gadgets/items for the work specified or not specified elsewhere in this document will be under the scope of the contractor.
12. The contractor shall commence the work within 15 days of issue of LOA.
13. The contractor should use proper tools and the staff deployed for the work should be skilled enough to implement the instructions in totality.
14. Transportation of men and materials to the work spot is the responsibility of the contractor.
15. Space will be given for stocking the materials and other machineries, which are required for the work. But safety and security of machines and materials shall be the responsibility of the contractor.
16. **Completion Period:**
The entire work shall be completed and handed over to Sr.DME/TSK or his nominated representative within 03 **(three) months** from the date of issue of LOA.
17. **Electricity:** Electricity will not be supplied at free of cost. The contractor should take necessary arrangement to use electrical energy from Sr.DEE/TSK duly following the procedure. The cost of electrical energy should be paid by the contractor as per rules. The contractor shall use their own Electric supply cable.
18. **Safety Regulations:**
 - i. In respect of all labour, directly or indirectly employed in work for the performance of contractor's part of this agreement, contractor shall be fully responsible and ensure compliance of all safety provisions as per safety codes, as applicable.

- ii. Railway shall not be in any way held responsible for any accident or damages incurred and claims arising there-from during the period of erection, testing & commissioning putting the plant into operation.
 - iii. No workmen shall be engaged on the work without proper safety induction and without using required Personal Protective Equipment (PPE).
 - iv. Railway reserves the right to issue directions regarding safety and such directions shall immediately be implemented by the contractor. Any violation of safety regulations, including non-provision of safety appliances or non-compliance of safety procedures, shall attract recovery of a minimum amount of ₹2000/- per occurrence, which shall be deducted from the contractor's bills.
 - v. Contractor's supervisor must be present at the work spot as long as the work is being continued. The worker shall never be left at site without being supervised by the contractor.
- 19. Insurance Policy:** The contractor has to indemnify the Railway against all claims for damages, suits and demands preferred against the Railway by third parties in respect of injuries to or death of third persons and in respect of loss of or damage to property caused by the contractor, contractor's labourers. Contractor shall submit copy of the insurance policy indemnifying the Railways of any financial implications arising due to payout of claims on account of damages, accidents, untoward incidents etc. during the execution of works.
- 20.** The Contractor should ensure all Fire Prevention measures and any Damage if occurred due to Contractor will be recovered as per norms.
- 21. FIRST-AID:** The contractor shall maintain in a readily accessible place first-aid appliance including adequate supply of sterilized dressing and sterilized cotton wool. The appliances shall be placed under the charge of responsible person who shall be readily available during working hours.
- 22.** The contractor shall take utmost care to ensure that no damage to the railway property takes place due to any act of his workmen, while carrying out the work under this contract. For any damages, contractor shall be responsible and cost of damage will be recovered from contractor's bill. Railway's decision in this regard shall be final and binding on the contractor.
- 23. Work Diary and Registers to be maintained:-**
- (i) The contractor shall maintain a work diary for the above contract in which the contractor will indicate the details of the works carried out daily, contract staff engaged for the work and it should be jointly certified by both the railway supervisor and contractor's supervisor daily.
 - (j) **Register for Receipt and issue of store-** Contractor shall maintain a register maintaining receipt and issue of materials.
 - (k) A Register will be kept to record instructions issued by engineer and his supervisor. Contractor shall record compliance of the instructions issued to him from time to time.
 - (l) Additional records/registers if any required should also be maintained and the details recorded as per instruction of Sr. DME or his representative.
 - (m) **Register for deployment of manpower-** Contractor shall maintain a register detailing date wise and shift wise deployment of manpower for execution of the work.
- 24.** The Contractor shall furnish complete details of the personnel to be deployed with supervisor(s) giving the working timings. The name/list of all the employees and supervisor along with their police verification reports should be submitted to representative of Sr. DME/TSK before starting the work. Prior approval shall be obtained from Sr. DME/TSK for making any new deployment and details as above of new entrant shall be submitted within 7 days of such deployment.
- 25.** Contractor has to provide Photo Identity cards duly signed by an officer nominated by Sr.DME/TSK to his staff including supervisor(s).
- 26. Inspection:**
Nominated Engineer by Sr.DME/TSK, North East Frontier Railway, Tinsukia division will look after the inspection.
- 27. Penalty Clause/Liquidated Damage:-**
- (i) The CCTV Surveillance System at DBRG Coaching Depot and TSK Coaching Depot of TSK Division is to be commissioned within a period of 03 (three) months from the date of issue of Letter of Acceptance (LOA). Liquidated Damages for delay in completion of the work

shall be levied and recovered in accordance with the provisions of Clause 17(B) of the SGCC (Works)- April-2022 with latest correction issued from Railway Board.

- (ii) For not-attending to the faulty workmanship or defective equipment if any within 7 days of intimation call during the warranty period, penalty of Rs. 300/- per day (or part thereof) of delay beyond stipulated time shall be imposed.
- (iii) Contractor's staff should not use any alcoholic drinks or any other narcotics during working hours and if found indulging in such activity than a penalty of Rs. 1,000/- per workmen per incident shall be imposed and the firm shall be bound to accept such a penalty.
- (iv) For misbehavior with Railway officials or indulging in any unlawful activity, a penalty of Rs. 20,000/- per instance shall be imposed with debarring of the concerned staff immediately.

28. Accepted Rates:

The accepted rates shall be inclusive of the following:

- a. Cost of Manpower, Cost of spares, Consumables, tools and any other items.
- b. Cost of all auxiliary equipment, consumable for completing the job.
- c. Any other cost direct or hidden, not mentioned above.
- d. All taxes and levies and GST.

29. GST: This contract is covered under the GST Act. The accepted rates shall be inclusive of GST.

Bills shall be prepared as per Railway Board letter no. 2016/CE-I/CT/12/GST/Pt.I; dtd. 29.06.2017 (Annexure-I of this section).

30. Payment to Contractor staff:

Each contractor staff should get their salary from the contractor through bank and copy of receipt should be submitted to the office of Sr. DME/TSK along with the bill.

Similarly, proper PF, ESI should be deposited for the contractor staff and record should be submitted to the office of Sr. DME/TSK along with the bill.

Without these records payment shall not be released.

31. Payment terms:

The standard payment terms subject to recoveries of any amount under the liquidated damages clause of contract will be as under:

- (i) The 1st payment of 80% of total value will be paid after supplying of items of the CCTV Surveillance System at DBRG Coaching Depot and TSK Coaching Depot.
- (ii) The 2nd payment of 20% of total value will be paid after successful commissioning and testing of the CCTV Surveillance System at DBRG Coaching Depot and TSK Coaching Depot and certified by Railway Representative.
- (iii) The bill shall be submitted in Railway bill form in triplicate to the Depot officials, who will certify and submit the bill to the office of Sr. DME/TSK, North East Frontier Railway, Tinsukia Division for arranging payment through Senior Divisional Finance Manager, North East Frontier Railway, Tinsukia Division.
- (iv) Payment as above shall be subject to any deductions of any amount for which the contractor is liable under the contract against this tender including penalty as specified penalty clause or any other contract in respect of which the President of India is the contracting authority.
- (v) **Letter of Credit (LC):**
 - i) For all the tenders having advertised cost of Rs 10 lakh or above, the contractor shall have the option to take payment from Railways through a letter of credit (LC) arrangement.
 - ii) This option of taking payment through LC arrangement has to be exercised in IREPS (Indian Railway Electronic Procurement System - the e-application on which tenders are called by Railways) by the tenderer at the time of bidding itself, and the tenderer shall affirm having read over and agreed to the terms and conditions of the LC option.
 - iii) The option so exercised, shall be an integral part of the bidder's offer.
 - iv) The above option of taking payment through LC arrangement, once exercised by tenderer at the time of bidding, shall be final and no change shall be permitted, thereafter, during execution of contract.

- v) In case tenderer opts for payment through LC, following shall be the procedure to deal release of payment through LC:
- (a) The LC shall be a sight LC.
 - (b) The contractor shall select his Advising/Negotiating bank for LC. The incidental cost towards issue of LC and its operation thereof shall be borne by the contractor.
 - (c) SBI, New Delhi, Main Branch will be the nodal branch for issue of LCs based on online requests received from Railway Accounts Units for tenders opened in financial year 2018-19. SBI branches where the respective Railway Accounts Office has its Account (local SBI branch) will be the issuance/reimbursing branch for LC issued under this arrangement. The Bank shall remain same for this tender till completion of contract. The incidental cost @0.15% per annum of LC value, towards issue of LC and operation thereof shall be borne by the contractor and shall be recovered from his bills.
 - (d) The LC shall be opened initially for duration of 180 to 365 days in consultation with contractor. The LC shall be extended time to time as per the progress of the contract, on the request of the contractor. The value of LC to be opened initially as well as extended thereafter shall be finalized by the engineer in consultation with the contractor on the basis of expected progress of work.
 - (e) The LC terms and conditions shall inter-alia indemnify and save harmless the Railway from and against all losses, claims and demands of every nature and description brought or recovered against the Railways by reason of any act or omission of the contractor, his ,agents or employees, in relation to the Letter of Credit (LC). All sums payable/borne by Railways on this account shall be considered as reasonable compensation and paid by contractor.
 - (f) The LC terms and conditions shall inter-alia provide that Railways will issue a Document of Authorization after passing the bill for completed work, to enable contractor to claim the authorized amount from their bank.
 - (g) The acceptable, agreed upon document for payments to be released under the LC shall be the Document of Authorisation.
 - (h) The Document of Authorisation shall be issued by Railway Accounts Office against each bill passed by Railways.
 - (i) On issuance of Document of Authorisation, a copy of Document of Authorisation shall be posted on IREPS for download by the contractor. A digitally signed copy of Document of Authorisation shall also be sent by Railway Accounts Office to Railway's bank (Local SBI Branch).
 - (j) The contractor shall take print out of the Document of Authorisation available on IREPS and present his claim to his bank (advising Bank) for necessary payments as per LC terms and conditions. The claim shall comprise of copy of Document of Authorization, Bill of Exchange and Bill.
 - (k) The payment against LC shall be subject to verification from Railway's Bank (Local SBI Branch).
 - (l) The contractor's bank (advising bank) shall submit the documents to the Railway's Bank (Local SBI Branch).
 - (m) The railway's bank (issuing bank) shall, after verifying the claim so received w.r.t. the digitally signed Document of Authorisation received from Railway Accounts Office, release the payment to contractor's bank (advising bank) for crediting the same to contractor's account.
 - (n) Any number of bills can be dealt within one I.C, provided the sum total of payments to contractor is within the amount for which LC has been opened.
 - (o) The LC shall be closed after the release of final payment including PVC amount, if any, to the contractor.
 - (p) The release of performance guarantee or security deposit shall be dealt directly by railway with the contractor i.e., not through LC.

32. Contractor must comply with the provision of the Contract Labour (R&A) Act, 1970 and Minimum Wages Act, 1948 strictly and arrange minimum wages to the contract labours and in the event of failure to comply minimum wage, the offer will be rejected. Payment to the contract labours should be made through Bank/Cheque.
33. Contractor is required to upload details of their LOAs, engaged workman, wage payment details, PF/ESI details, bonus details etc., on monthly basis in the portal 'www.shramikkalyan.indianrailways.gov.in'. The details so uploaded shall be available in public domain.

SCOPE OF WORK AND SPECIFICATIONS**1. SCOPE OF WORK:**

Description of work: “Supply, Installation and Commissioning of CCTV Surveillance System at DBRG Coaching Depot and TSK Coaching Depot of TSK Division”

Scope of work: The scope of work includes Supply, installation and Commissioning of CCTV surveillance system at different location of Dibrugarh Coaching Depot and Tinsukia Coaching Depot.

2. Location of the work:

i. **Dibrugarh Coaching Depot: 24 CCTV Surveillance system**

ii. **Tinsukia Coaching Depot: 16 CCTV Surveillance system**

Note: The quantities of CCTV Surveillance system are indicative and provided for guidance only.

3. Detailed Scope of work:

i. **The schedule of work to be carried out under this contract is detailed below:**

SN	Description of work	Unit	Qty
1	Full HD bullet type IP colour camera along with housing and mount and all accessories required for installation purposes along with 128 GB SD/SDHC/SDXC Memory card or higher.	NO.	31
2	Supply, Installation, Testing & commissioning of full HD Resolution PTZ (Pan, Tilt, Zoom) IP colour camera with varifocal lenses along with housing and mount with all accessories as per RDSO specification no. RDSO / SPN / TC / 65 /2021 version 6.0 or latest.	NO.	5
3	4K UHD bullet type IP colour camera Type A (with image sensor 1/1.8") along with housing and mount and all accessories required for installation purposes along with 128 GB SD/SDHC/SDXC Memory card or higher.	NO.	4
4	Supply and Installation of Digital Key - Board all accessories compatible with P/T/Z cameras as per Technical Specification.	NO.	2
5	PC Workstation for viewing, monitoring and system management including 24" 4K UHD LED monitor with mouse and keyboard with Windows 10 operating system, MS office, antivirus (licensed genuine software), with 1000 VA UPS.	NO.	2
6	Supply , Installation, Testing and Commissioning of Video Management & Recording server cum Analytic hardware and all accessories required for installation	NO.	2
7	FRS server hardware and all accessories required for installation purposes, including 17" FHD LED monitor with mouse and keyboard & KVM switch with Windows operating system suitable for server, for server rack.	NO.	2
8	Supply, Installation, Testing and Commissioning of AI Video Analytic server software and all accessories required for installation purposes as per Technical	NO.	2

	specification.		
9	Supply, Installation, Testing and Commissioning of Video FRS server software and all accessories required for installation purposes as per Technical specification.	NO.	2
10	Supply, Installation, Testing and commissioning of Graphical User Interface software, Video Management System software (per camera basis) and Video Recording Software for the server hardware as per TS & Supply , Installation, configuration & Commissioning of Remote Viewing on Web and Mobile APP & Command and Control Centre software as per Technical specification.	NO.	2
11	Storage System for 30 days recording at station/CDO/Office/Post along with all accessories required for installation purposes (Lot = Tera Byte, Capacity of storage in TB).	Lot	2
12	Supply of SFP/SFP+		
a	Supply of single mode single fiber 1G SFP+ module compatible with switch taken in the schedule. (Inspection by Consignee)	Pair	7
b	Supply of single mode single fibre 10G SFP + module compatible with the switch taken in the schedule. (Inspection by Consignee)	NO.	4
13	Supply and installation, testing of aggregator switch and all accessories required for their installation of layer-2,24 port POE based ,manageable smart switch & 4 gigabit Port loaded with 1G SFP module of make- cisco or juniper or superior and as per technical specification	NO.	2
14	Supply and installation, testing of layer-2,8 port POE based ,manageable smart switch & 2 gigabit Port loaded with 1G SFP module of make- cisco or juniper or superior as per technical specification.	NO.	8
15	Supply of Media Converter (OFC to Ethernet) of make D-Link or MROTEK or DAX as per RDSO Spec. RDSO/SPN/TC/65/2009 Rev.1.0 and as per specification enclosed. Inspection by consignee	Pair	11
16	Supply of STP CAT-6 cable as per technical specification	Mtr	2700
17	Supply of covered 19" (42U) Racks of size 2200mm x 600mm x 600mm (similar to Vero president / HCL / RITTAL Make) complete with all fittings including DC Fan (48V) - 2 Nos and AC power distribution panel (horizontal fitting) with power sockets and fuse protection (minimum 6 Nos. of 230V 15A/5A combined) and other accessories.	NO.	2

18	Supply & Installation of Professional 19" Equipment Racks 9U make president/HCL/APW/Valrack with front glass door with lock and rack fixing, 2 cable manager, 1 PDU with 5 sockets 20 screw nuts, 12 no. fan with 500 depth & all accessories. (Inspection by Consignee)	NO.	9
19	Supply and installation of OFC patch cord 2m long(SC-SC/SC-LC) as per technical specification	NO.	7
20	Supply of OFC pigtail, Single mode, 5 mtr or 10 mtr as per RDSO/SPN/TC/69/2007, Rev.0 or latest.	NO.	1
21	Supply of power cable 3 core,2.5Sqmm armoured copper cable as per technical specification	Mtr	1850
22	Supply and installation of 5 KVA on line UPS with isolation transformer suitable for single phase AC input and single phase AC output, floor mounted type. With 20 Nos of 65 AH batteries providing Minimum 2 Hr backup	NO.	2
23	Supply of Earthing and installation for 3 Pit per site as per technical specification.	NO.	3
24	Fixing of GI pipes/DWC pipes of all sizes & diameters/ troughing on culverts, bridges & any other loc. etc. complete as per technical specifications.	Mtr	60
25	Supply of ACDB for AC distribution Box with Lock and key arrangements and ISI Mark MCBs of various ratings as per technical specification.	NO.	2
26	Furniture for Workstation A.3 i.e. one table (Model:T-105 Make: Godrej or similar), and two chairs (Model:CH-1007 Make: Godrej or similar).	NO.	2
27	Supply and fixing of 1.5inch PVC casing capping with all fitting materials, make Legrand or similar.	Mtr	550
28	Supply of PVC conduit pipe/Casing capping superior quality with ISI mark. As per IS 9537	Mtr	2600
29	Cable crossing road/track through HDPE pipe of 90/76 mm diameter as per technical specification	Mtr	120
30	Supply of Power wire (copper, multi strand) (1x16Sq.mm) as per technical specification.	Mtr	40
31	Supply of Multi strand Copper cable (1x10Sq.mm) as per technical specification	Mtr	105
32	Power board for control room (CDO office)	NO.	2

ii. Technical Specification:

The CCTV surveillance equipment to be supplied, installed, tested and commissioned under this contract shall conform to RDSO/SPN/TC/65/2021 Version 6.0 Amendment-1 or latest amendment, as well as other relevant RDSO specifications applicable to the items, and shall meet the following technical requirements:

SN	Description of item	Technical Specification
1.	Full HD bullet type IP colour camera along with housing and mount and all accessories required for installation purposes along with 128 GB SD/SDHC/SDXC Memory card or higher	As per Clause no. 5.4 of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.
2.	Supply, Installation, Testing & commissioning of full HD Resolution PTZ (Pan, Tilt, Zoom) IP colour camera with varifocal lenses along with housing and mount with all accessories	As per Clause no. 7.0 of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.
3.	4K UHD bullet type IP colour camera Type A (with image sensor 1/1.8") along with housing and mount and all accessories required for installation purposes along with 128 GB SD/SDHC/SDXC Memory card or higher	As per Clause no. 5.5 of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.
4.	Supply and Installation of Digital Key - Board all accessories compatible with P/T/Z cameras	As per Clause no. 8.0 of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.
5.	PC Workstation for viewing, monitoring and system management including 24" 4K UHD LED monitor with mouse and keyboard with Windows 10 operating system, MS office, antivirus (licensed genuine software), with 1000 VA UPS.	As per Clause no. 11.0 of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.
6.	Supply, Installation, Testing and Commissioning of Video Management & Recording server cum Analytic hardware and all accessories required for installation	As per Clause no. 10.1. of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.
7.	FRS server hardware and all accessories required for installation purposes, including 17" FHD LED monitor with mouse and keyboard	As per Clause no. 10.1. of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.

	& KVM switch with Windows operating system suitable for server, for server rack.	
8.	Supply, Installation, Testing and Commissioning of AI Video Analytic server software and all accessories required for installation purposes.	As per Clause no. 18.4 & 20.0 of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.
9.	Supply, Installation, Testing and Commissioning of Video FRS server software and all accessories required for installation purposes	As per Clause no. 19 & 20.0 of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.
10.	Supply, Installation, Testing and commissioning of Graphical User Interface software, Video Management System software (per camera basis) and Video Recording Software for the server hardware as per TS & Supply , Installation, configuration & Commissioning of Remote Viewing on Web and Mobile APP & Command and Control Centre software.	As per Clause no. 18.2 of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.
11.	Storage System for 30 days recording at station/CDO/Office/Post along with all accessories required for installation purposes (Lot = Tera Byte, Capacity of storage in TB).	As per Clause no. 12.0 and 2.8 of RDSO/SPN/TC/65/2021, Version 6.0 amendment 1 or latest amendment.
12.	Supply of SFP/SFP+	
a	Supply of single mode single fiber 1G SFP+ module compatible with switch taken in the schedule.	SFP should have to compatible with Switch supplied in this tender.
b	Supply of single mode single fibre 10G SFP + module compatible with the switch taken in the schedule.	SFP should have to compatible with Switch supplied in this tender.
13.	Supply and installation, testing of aggregator switch and all accessories required for their installation of layer- 2,24 port POE based ,manageable smart switch & 4 gigabit Port loaded with 1G SFP module of make- cisco or juniper or superior	Brand : TP-Link or similar
		Number of Ports: 30
		Included Components : TL-SL2428P, Power Cord, Installation Guide, Rack mount Kit, Rubber Feet
		Compatible Devices: Desktop
		250 W PoE Budget : 24× 802.3 at/af-compliant PoE+ ports with a total power supply of 250 W
		Gigabit Ports : 2× Gigabit RJ45 ports and 2×

		Combo Gigabit RJ45/SFP Ports provide high-speed connections	
		Integrated into Omada SDNZero-Touch Provisioning, Centralized Cloud Management, and Intelligent Monitoring.	
		Centralized Management, Cloud access and Omada app for ultra convenience and easy management.	
		Optimize Voice and Video Applications: L2/L3/L4 QoS and IGMP snooping.	
14.	Supply and installation, testing of layer- 2, 8 port POE based, manageable smart switch & 2 gigabit Port loaded with 1G SFP module of make- cisco or juniper or superior.	Features	Specifications
		POE Port	All 8 ports support IEEE802.3AF/AT Standard
		POE Power Budget	130W
		POE Protocol	IEEE 802.3af/IEEE 802.3at
		Network Standard	IEEE 802.3, IEEE802.3u, 802.3x, 802.3af/at
		Network Medium	10/100/1000 BASE-TX: CAT5, CAT-5e, CAT-6
		Switch Capability	16 Gbps
		Forwarding Mode	Store and forward
		MAC Address	MAC address table 4 K
		Operating Power Supply	100 to 240 VAC
15.	Supply of Media Converter (OFC to Ethernet) of make D-Link or MROTEK or DAX.	Media Converter shall be as per RDSO specification no. RDSO/SPN/TC/103/2013, Revision 3.0 (with latest revision/ amendments).	
16.	Supply of STP CAT-6 cable as per technical specification	Category	6 SFTP Solid cable
		Conductor	23 AWG Multi-cores (Solid)
		Conductor Meta	Bare Copper
		Insulation Material	HD-PE
		Pairs	2 Insulated conductors twisted together
		Shield	Aluminum / Polyester Foil Tinned copper Braiding

		Sheath	PVC/LSZH
		Cable Diameter	7.5 mm nominal
17.	Supply of covered 19" (42U) Racks of size 2200mm x 600mm x 600mm (similar to Vero president / HCL / RITTAL Make) complete with all fittings including DC Fan (48V) - 2 Nos and AC power distribution panel (horizontal fitting) with power sockets and fuse protection (minimum 6 Nos. of 230V 15A/5A combined) and other accessories.	i. The size of the Racks shall be 2200mm x 600mm x 600mm.	
		ii. Rack should be conforming to DIN 41494.	
		iii. The shelf's heights shall be adjustable to accommodate the equipment.	
		iv. The cabinet shall be able to house server, switch and storage device of all reputed make, work station, UPS & other accessories.	
		v. It shall have a front door of glass with vent on side trims & dual rear door of fully perforated steel.	
		vi. Frame & side panels are made of heavy grade CRCA steel in light gray colour between 80-120 Microns.	
		vii. Rack should have five universal shelves with a separate pair of mounting brackets for the rear which make it possible to adapt to different mounting dimensions between the 19" vertical angles to mount servers, switches, storage devices, industrial PC, monitor, UPS etc.	
		viii. A sliding key board tray shall be fitted at a suitable height inside the rack so that key board can be easily taken out of the rack for operation of system.	
		ix. The front door shall be of double door type. One of front door shall be fitted below the rotary keyboard tray and the other should be fitted above the rotary keyboard tray, keeping a clear space for rotary key board so that the key board can be taken out without opening the front doors.	
		x. Rack should be provided with 2 two universal shelves with a separate pairs of reducing Channels along with the mounting hardware and fasteners, support angles in pairs rated for 50 kgs, equipment Mounting Angles in pairs and 4 nos. telescopic slides meant for the housing of rack-mount electronic equipment in 19" enclosure systems of high quality steel ball bearing slides for a variety of load-ratings and applications.	
		xi. 19" mountable fan trays, top-mounted fan housing units with two cooling fans should be fitted to the underside of top cover.	
		xii. AC power distribution panel (horizontal fitting) with power sockets and fuse protection (minimum 6 Nos. of 230V 15A/5A combined).	
		xiii. Copper earthing bars and straps should be available for providing good quality electrical ground connections.	
		xiv. Cable Manager 2U, 19" Mounting, cable channel with cable Loops, cable extender, cabling bobbins, cable retention bobbins, cable management & retention panel should also to be	

		provided in sufficient numbers for 42U rack.	
		xv. Captive mounting hardware packet of 20, Aluminum blank panels 19" 4U Al 10 SWG, Base frame, Four eye bolts, Leg screw adjustable set of four and castor heavy duty with brake should be provided with each cabinet.	
		xvi. Monitored fan tray to automatically control the operation of two cooling fans with built-in temperature sensors for an accurate measurement of temperature should be provided inside the cabinet.	
		xvii. A suitable dust filter should be provided at the air inlet.	
		xviii. Equipment similar to Vero president / HCL / RITTAL Make	
18.	Supply & Installation of Professional 19" Equipment Racks 9U make President/ HCL/ APW/ Valrack with front glass door with lock and rack fixing, 2 cable manager, 1 PDU with 5 sockets 20 screw nuts, 12 no. fan with 500 depth & all accessories.	i. 19", 9 U Racks should be IP 55 wall mounted type as well as Hanging type from station platform (Provision of wall mount and hanging at different ceiling height should be made available within the rack with adjustment of height without changing the pipe length)	
		ii. The size of the cabinet shall be approximately Width: 600mm, Heights: 9U and sufficient depth to accommodate switch.	
		iii. Rack should be conforming to DIN 41494.	
		iv. The shelf's heights shall be adjustable to accommodate the equipment.	
		v. It shall have a front door lockable toughened glass & rear door of lockable steel door with PU Gasket and Pad Lock arrangement	
		vi. An IP 55 Certified Fan and Filter Unit to be installed on side of the rack with IP55 Hose proof Hood.	
		vii. Make: President/ HCL/ APW/ Valrack or similar	
19.	Supply and installation of OFC patch cord 2m long(SC-SC/SC-LC)	Brand	BEYONDTECH or similar
		Connector Type	Optical
		Cable Type	Fibre Optic
		Ethernet cable category	Cat 6a
		Connector Gender	Male-to-Male
		Data Transfer Rate	10 Gigabits Per Second
		Wavelengths	850 and 1300 nm
20.	Supply of OFC pigtail, Single	As per RDSO/SPN/TC/69/2007 or latest	

	mode, 5 mtr or 10 mtr	amendments
21.	Supply of power cable 3 core, 2.5 Sqmm armoured copper cable	a. These cables are designed for residential and commercial infrastructure Features :- Voltage Rating - Up to and including 1100V Current - 24 Amps High Quality PVC Coating and High Grade Copper Conductor material is used which makes it suitable for domestic as well as Industrial use.
		b. Uses: 3 Core Wire 2.5 Sq mm Round Copper Cable ISI Mark Heavy Duty is perfect choice for 1/1.5/2 ton AC, refrigerator, microwave, induction cooker, washing machine, electric iron, mixer grinder, TV, Computer or any other home appliances under 3500 watts.
		Advantage: It made of copper but others mixed with iron and silver. It has PVC coating that is why fire radiant and shock proof. You will get exact length but others come with low length.
		Anti-Rodent, Anti Termite, Superior and this copper wire is assured to protect your electronic appliances. It is also an ISI certified product with PVC as its insulation material and copper as its conducting material.
		Temperature:- Suitable for all Seasons, Indoor, Outdoor and Wet area Electrical Connections.
22.	Supply and installation of 5 KVA online UPS with isolation transformer suitable for single phase AC input and single phase AC output, floor mounted type. With 20 Nos of 65 AH batteries providing Minimum 2 Hr backup	UPS Capacity : 5 kVA UPS System (1Ph Input /1Ph Output) with Inbuilt input side Isolation Transformer
		Topology True On-line Double Conversation UPS
		Output power capacity 4KW
		<p>Input</p> <p>Voltage Range 110 - 300 VAC based on the load percentage</p> <p>Frequency 50 Hz (Frequency Range 45 to 55 Hz)</p> <p>Power Factor ≥ 0.99 at full load and nominal input Voltage</p> <p>Current THD $< 5\%$ 5 Output</p> <p>Output</p> <p>Voltage 230 VAC</p> <p>Voltage Regulation $+ / - 1\%$</p> <p>Frequency (Free Running Mode) 50 Hz ± 0.1 Hz</p> <p>Frequency (Synchronisation Mode) 45 to 55 Hz</p> <p>Harmonic Distortion (THD) $< 2\%$ (linear load) $< 5\%$ (non-linear load)</p> <p>Output Waveform Sine wave</p> <p>Crest Factor 3:1</p> <p>Inverter Efficiency $> 90\%$</p> <p>Power Factor 0.9 Lagging</p> <p>Overload 101% - 109% for 5 minutes 110% - 129% for 1 minute 130%-150% for 10 Sec 5.11</p> <p>System DC Voltage ≥ 216 VDC</p>

		<p>Battery- 65AH, 20 Nos of battery Battery Type 12 V Sealed Lead Acid Maintenance Free Battery makes Exide or similar Battery charging Constant Current & Constant Voltage Back up time 120 Mins Backup Charger Built-in solid state float-cum-equalizing charger with automatic boost / trickle charge modes with current limiting features. Battery Rack Customized Iron Make well painted as per direction of site in charge VAH Required ≥ 16200</p> <p>Efficiency AC/AC (overall efficiency) $\geq 85\%$ (at full Load)</p> <p>Warranty 2Years on UPS & 2Years on Battery from date of supply.</p> <p>Make: Emersion/Numeric/Delta/Microtek or superior.</p> <p>Installation, connection testing and commissioning of UPS will be done as per supervisor in charge. All necessary consumables i. e. all types of connectors, petroleum jelly and accessories will be supplied by the contractor as per direction of site supervisor.</p>
23.	Supply of Earthing and installation for 3 Pit per site	<p>Tripod chemical earthing as per RDSO/SPN/197/2016 Ver.1 or latest</p> <p>Provision of Equi-potential Earth Bus bars in the equipment/Server/OFC room shall be done by the contractor along with connection to the Main Earth pit & other earthing points for equipment & SEEBs. This shall be done as per RDSO specifications. All materials required for installation and commissioning of the earthing system to be supplied by the contractor without any additional cost.</p> <p>Item to be procured from RDSO approved vendor only and document of procurement to be submitted at the time of supply of the material.</p>
24.	Fixing of GI pipes/DWC pipes of all sizes & diameters/ troughing on culverts, bridges & any other loc. etc. complete	Fixing of GI pipes/DWC pipes of all sizes & diameters/ troughing on culverts, bridges & any other location etc. complete with own clamps, nuts and bolts.
25.	Supply of ACDB for AC distribution Box with Lock and key arrangements and ISI Mark MCBs of various ratings	ACDB for AC distribution Box (PVC/ metallic box) with Lock and key arrangements having ISI Mark MCBs of various ratings as per direction of Railway representatives.
26.	Furniture for Workstation A.3 i.e. one table (Model: T-105 Make: Godrej or similar), and two chairs (Model:CH-1007 Make: Godrej or	<p>Table- Model: T-105 Make: Godrej or similar</p> <p>Chairs- Model:CH-1007 Make: Godrej or similar</p>

	similar).	
27.	Supply and fixing of 1.5inch PVC casing capping with all fitting materials	Supply of 1.5" PVC conduit pipe/Casing capping superior quality with ISI mark. Make Legrand or similar
28.	Supply of PVC conduit pipe/Casing capping superior quality with ISI mark	PVC Conduits / Casing Capping / Flexible for laying of all types of cables related to as per site requirement. Standard – ISI Mark IS 9537.
29.	Cable crossing road/track through HDPE pipe of 90/76 mm diameter	HDPE doubled walled corrugated pipe size of outer Dia 90mm/inner dia 76mm as per IS 14930.
30.	Supply of Power wire (copper, multi strand) (1x16Sq.mm)	Supply of Power wire (copper, multi strand) as per IS 2465/1984 & IS 694/1990 (1x16Sq.mm). 101 Conductors each dia 0.45 + 0.01 with insulation thickness of 1.2mm nominal conductor resistance 1.127 Ohms/Km and test parameters as per IRS(S) 76/89.
31.	Supply of Multi strand Copper cable (1x10Sq.mm) as per technical specification	Supply of Power wire (copper, multi strand) as per IS 2465/1984 & IS 694/1990 (1x10Sq.mm). 101 Conductors each dia 0.45 + 0.01 with insulation thickness of 1.2mm nominal conductor resistance 1.127 Ohms/Km and test parameters as per IRS(S) 76/89.
32.	Power board for control room (CDO office)	Power board has to be compatible with the items supplied in this tender.

4. **Warranty:** The tenderer shall be responsible for ensuring satisfactory operation of the CCTV Surveillance System for a period of 2 years from the date of commissioning or the warranty period prescribed by the OEMs for individual equipment whichever may be later. The responsibility of arranging warranty from the OEM's during the warranty period shall be of the tenderer.
5. The quantities shown is indicative and for guidance only. The Bidder/Tenderer must conduct site inspection at Dibrugarh Coaching Depot and Tinsukia Coaching Depot prior to the submission of the bid and must submit duly signed detailed layout plan of the CCTV Surveillance system along with tender document, **otherwise the bid shall be summarily rejected.**
6. The successful tenderer shall have to submit the detailed layout plan of the CCTV Surveillance system and other relevant details etc before commencement of work for approval by Railway.
Sr. DME/TSK reserves the right to modify the site plan and finalize the installation locations based on site feasibility and operational requirements. The contractor shall carry out the work as per the final approved locations.



भारत सरकार Government Of India

रेल मंत्रालय Ministry Of Railways

(रेलवे बोर्ड) (Railway Board)

GST Circular No- 26

RBA No - 83

No. 2016/CE-I/CT/12/GST/Pt.I

Dated: 29.06.2017

As per list attached

Sub: Implementation of GST Act, 2017- Procedure for payment of Contractual bill.

On Indian Railways presently 'work executed by contractor' is recorded in measurement books by railway, duly accepted by contractor. Railway prepares 'on account / final contract certificate' for the payable amount based on the work executed and the rates quoted by the contractor duly deducting various statutory taxes like - work contract tax/ service tax/royalties/income tax etc. as per applicable rates. Further, railways deposit the statutory deductions themselves to the concerned authorities.

2. With GST act in force, it will be the responsibility of service providers (i.e. contractors) to submit the invoice (bill) duly segregating the GST component from the Gross amount of work executed.

3. Railways are therefore advised to follow the procedure as mentioned below while dealing with contractor's payment, once GST is applicable:

(A) (i) All works contracts are to be provided with goods/service code based on the type of contract. In case contract consists of both goods & service, then interpretation regarding nature of contract shall be done as per clause 8, Chapter III of CGST Act, 2017. The goods/service code is notified by Ministry of Finance and can be downloaded from the website www.cbec.gov.in.

(ii) The 'on account / final contract certificate' shall be prepared by the Railway on the basis of quantity of work executed and agreemental rates, duly segregating the GST component as detailed in para (iii) below.

(iii) Since the agreemental rates of contracts are inclusive of all taxes as per clause 37 of GCC-2014, the calculation of 'Gross amount of work executed', 'Amount of work executed excluding GST amount' and 'GST amount' in the 'on account / final contract certificate' shall be done as under:

Let Z = Gross amount of work executed on the basis of quantum of work executed and agreemental rates.

X = Amount of work executed excluding GST amount.

Y = GST amount as per applicable GST rate for that goods/service code.

R = Percentage rate of GST for that goods/service code

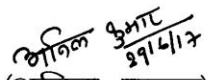
Then, $Z = X+Y$, $Y = X \cdot R/100$

- (iv) Percentage rate of GST for various types of goods/services as finalised by GST council can be downloaded from the website www.cbec.gov.in.
- (B) (i) Once the 'on account / final contract certificate' is prepared by railway and communicated to contractor, the contractor shall submit invoice (bill) on his Letter head duly segregating the 'Amount of work executed excluding GST amount' and 'GST amount' (i.e. "X" & "Y" as mentioned in para 3(A)(iii) above) along with Invoice No. (bill No.) and all other details required under GST act. The sample GST compliant invoice is annexed herewith.
- (ii) In case contractor is liable to be registered under GST Act, Railway shall pay to the Contractor 'Gross amount of work executed' (i.e. "Z" as mentioned in para 3A(iii) above) duly deducting all other leviable taxes like I/Tax, labour cess, royalty etc. as applicable. Contractor shall be liable to pay 'GST amount' to respective authority himself. Whereas, railway shall deposit all other taxes deducted to concerned authority as is being done presently.
- (iii) In case contractor is not liable to be registered under GST Act, contractor shall be paid "Amount of work executed excluding GST amount" (i.e. "X" as mentioned in para 3A(iii) above) duly deducting all other leviable taxes like I/Tax, labour cess, royalty etc. as applicable. Railway shall deposit 'GST amount' as well as all other taxes deducted to concerned authority.
- (iv) In case any need arises to modify the Invoice (Bill) due to any reason, contractor shall submit amended fresh invoice for processing the payment.

This is issued with the concurrence of Accounts directorate and approval of Board (ME).

Please acknowledge receipt.

Enclosure- as Above


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