

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)**

No. 2022/C&IS/Project/Proposals/Umbrella 2022-23/7

New Delhi, Dated:15.05.2024

**The General Manager,
Northern Railway, New Delhi.**

Sub:Sanction of the work “Design, Development and Implementation of a Web Application for Uploading/Viewing of ITMS (Integrated Track Monitoring Systems) generated Videos and Images and its integration with Track Management System”.

Ref:-(i) Northern Railway’s letter No. 198-w/e/-Gov/TMS/Development/Pt-IV dated 20.12.2023.

(ii) CRIS’s letter No.2022/CRIS/NDLS-HQ/CC/Project/workpropl/0402/pt-1 dated 20.12.2023.

Approval of Board (M/O&BD, Member/Finance and Chairman & CEO) is hereby communicated for the work “**Design, Development and Implementation of a Web Application for Uploading/Viewing of ITMS (Integrated Track Monitoring Systems) generated Videos and Images and its integration with Track Management System**” of Northern Railway at a cost of Rs.11.08 Crore (Rupees Eleven Crore and Eight Lakh only) chargeable to allocation “Capital” under the sanctioned Umbrella ‘Computerization and Information Technology Projects on Indian Railways- Umbrella work 2023-24 (Pink Book Item No. 270 of 2024-25 under Northern Railway)’. Item-wise break-up of cost of the work is attached as ‘Annexure’.

This issues with the concurrence of Finance Directorate of Ministry of Railways.

Signed by

Bharat Bhushan Harit
(Bharat Bhushan Harit)
Date: 15-05-2024 12:35:12
Director/NDL (C&IS)

No. 2022/C&IS/Project/Proposals/Umbrella 2022-23/7

New Delhi, Dated: 15.05.2024

Copy to:

1. The Principal Financial Adviser, Northern Railway, New Delhi.
2. Principal Director of Audit, Northern Railway, New Delhi.
3. The Dy. Comptroller and Auditor General of India (Railways), Room No. – 224, Rail Bhawan, New Delhi.

Signed by

Sanjay Kumar Singh

For Member Finance
Date: 15-05-2024 13:04:28

Copy to:

1. The Executive Director Civil Engineering(G), Railway Board, Rail Bhawan, New Delhi.
2. The Chief Engineer/TMS, Northern Railway, Baroda House, New Delhi.
3. The Managing Director, CRIS, Chanakyapuri, New Delhi.
4. F(X)-II and Budget Branches of Railway Board.

I/3095754/2024 2022/C&IS/Project/Proposals/Umbrella 2022-23/7

New Delhi, Dated: 15.05.2024

SN		Items	Qty	Rate (Rs.)	Cost (Rs.)
1	Requirement Analysis, System Design & Deployment & Integration (Resources) Costs				
	1.1	Principle Project Engineer	12	352367.00	4228404
	1.2	Senior Project Engineer	24	339768.00	8154432
	1.3	Asstt. Software Engineer	24	162157.00	3891768
		Total - Requirement Analysis, System Design & Deployment & Integration Costs (1)			16274604
2	Skills Development (of Resources & Customers) Costs				
	2.1	Technical & Managerial Skills development	1	825000.00	825000
		Total - Skills Development (of Resources & Customers) Costs (2)			825000
3	Hardware Systems Costs				
	3.1	Development, UAT/Staging and Production Environment			
	3.1.1	CRIS Private Cloud Infrastructure as a Service (IaaS)	1*	10321353.00	10321353
		Sub Total - (3.1)			10321353
	3.2	Terminal Sub-System (TSS)			
	3.2.1	Desktop All-In-One PCs	2	94900.00	189800
	3.2.2	Printers All-In-One	2	21998.00	43996
		Sub Total - (3.2)			233796
		Total for HARDWARE Systems Costs (3.1+3.2)			10555149
4	Network Equipment /Infrastructure Costs (FOIS /UTN, RCIL, open to Internet Option)				
	4.1	Cost component of common Internet Gateway	500	104490	52245000
	4.2	Internet bandwidth charges	500	11001	5500500
		Total - Network Equipment /Infrastructure Costs (4)			57745500
5		Sub Total - Project costs (1+2+3+4)			85400253
6	D & G Charges on above (kept max. 10 %)				
	6.1	ICT Innovation @ 3%			2562007.59
	6.2	Quality/ ISO - Certifications @ 2%			1708005.06
	6.3	CRIS Internal IT Systems (HW/SW) and Information Security @ 2%			1708005.06
	6.4	Procurement Services @ 2%			1708005.06
	6.5	Contingency Charges @ 1%			854002.53
		Sub Total - D & G Charges on above (6)			8540025.30
		Total - Project costs (5 to 6)			93940278.30
		GST @18%			16909250.09
		Grand Total			110849528.39

		2022/C&IS/Project/Proposals/Umbrella/2022-23/7	2022-23/7 Rounded Off	Rs. 11.08 Crore
--	--	--	--------------------------	--------------------

I/3095754/2024

Note:Since the cost of CRIS private cloud infra. has been taken for 03 years as per the available calculator on ESS, therefore, cost of networks has also been taken for 03 years. Application Development cost has been taken for 01 year. The project will run in O&M after 4th year onwards.

(*)	CRIS Private Cloud Infrastructure as a Service (IaaS)	
	Total of Storage + Backup	6000000
	Total of Memory (GB)	868579
	Total of vCPU for Production	2784731
	Total of vCPU for Development	278421
	Total of VMs (RHEL)	389622
	IaaS Cloud Infra Cost for 36 months	Rs. 10321353