

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

No. 2025/C&IS/Project/CIPS/4

N. Delhi dated 11.06.2025

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

Sub: Sanction of the work of "Centralized Payment System (CPS)" under Plan Head – 17 (Computerization) – reg.

Ref: CRIS's letter No CRIS/HQ/PRJT/216/2024-CPS dated 12.02.2025.

Approval of Board (M/O&BD, Member/Finance and Chairman & CEO) is hereby communicated for the work **"Centralized Payment System (CPS)"** of Northern Railway at a cost of Rs.39.83 Crore (Rupees thirty nine crore and eighty three lakh only) chargeable to allocation "Capital" under the sanctioned Umbrella 'Computerization and Information Technology Projects on Indian Railways- Umbrella work 2024-25 (Item No. 157 of Sanctioned Budget Allotment (SBA), 2025-26 issued by Northern Railway)'. Item-wise break-up of cost of the work is attached as 'Annexure'.

Accordingly, the necessary action may be taken for inclusion of the above work in the LAW Book of Northern Railway.

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

Digitally signed by
Bharat Bhushan Harit
Date: 11.06.2025
(Bharat Bhushan Harit)
Director, C&IS

No. 2025/C&IS/Project/CIPS/4

N. Delhi dated 11.06.2025

Copy to:

1. The Principal Financial Advisers, 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.

Digitally signed by
SANJAY KUMAR SINGH
Date: 11.06.2025
12:09:19
For Member Finance

Copy to:

1. Executive Director(PM), Railway Board.
2. The principal Chief Commercial Manager, Northern Railway, New Delhi.
3. The CE(P&D), Northern Railway, New Delhi.
4. Managing Director, CRIS, Chanakyapuri, New Delhi.
5. F(X)-II and Budget Branches of Railway Board.

Annexure

No. 2025/C&IS/Project/CIPS/4

dated 11.06.2025

Break up of Abstract Cost of the proposed work of Centralized Payment System (CPS)					
S.No.	Items	Unit	Qty (Q)	Rate (R) (Rupees)	Cost (Q*R) (Rupees)
1	Application Software - Development (Resource) Costs				
	1.1 Application Development Cost		1		24054440
	1.2 Security Audits of SW Application	Year	3	313000	939000
	1.3 Security Audits of infrastructure	Year	3	93222	279666
	Total Application Software - Development (Resource) Costs (1)				25273106
2	Skills Development (of Resources & Customers) costs				
	2.1 Training Cost for event streaming & Database (8 days training of 10 resources each)		2	999,920	1,999,840
	2.2 Travelling cost	Persons	20	75000	1500000
	2.3 Consultancy Cost	Person-days	50	128898	6444900
	2.4 Training cost for Caching Software		1	666744	666744
	Total Skills Development (of Resources & customers) costs (2)				10611484
3	System Software				
	3.1 System Software for Dev. & Testing				
	3.1.1 Event Streaming (Kafka) Licenses for 3 years	Node	6	561384.23	3368305.38
	3.1.2 subscription cost of Cache server for 3 years	Core	8	200290.39	1602323.12
	3.1.3 Subscription cost of DB Server for 3 years	Core	18	389746	7015428
	Sub Total (3.1)				11986056.5
	3.2 System software for Production systems with installation and training				
	3.2.1 Event streaming Software (Kafka) licenses for 3 years	Node	16	561384.23	8982147.68
	3.2.2 Subscription cost of Cache Server for 3 years	Core	32	200290.39	6409292.48

	3.2.3	Subscription cost of DB Server for 3 years	Core	96	389746	37415616
	3.2.4	Subscription cost of Application Server for 3 years	Core	8	1391830	11134640
	3.2.5	Secure Socket Layer (SSL) Certificate Software	Nos.	1	25000	25000
	3.2.6	IAM Tool	Users	25	9175.42	229385.5
	3.2.7	PIAM Tool	Users	25	48887.75	1222193.75
	3.2.8	Installation & Commissioning Services (Kafka & Database)	Person -days	100	45501	4550100
	3.2.9	Installation & Commissioning Services (Caching)	Person -days	35	128898	4511430
		Sub Total (3.2)				74479805.41
	3.3	System Software OEM Man-day Costs (Paid to OEMs)				
	3.3.1	OEM Man-days Post Installation (Kafka & DB)	Person -days	50	45501	2275050
	3.3.2	OEM Man-days Post Installation (Caching)	Person -days	25	141431.73	3535793.25
		Sub Total (3.3)				5810843.25
		Total System Software (Sys-SW) Costs (3.1+3.2+3.3)				92276705.16
4		HARDWARE Systems Costs				
	4.1	Development & Testing Environment				
	4.1.1	PCs for development team	Nos.	10	78728.81	787288.1
	4.1.2	Printers	Nos.	2	17795.19	35590.38
		Sub Total (4.1)				822878.48
	4.2	Hardware for Production and UAT Environment				
	4.2.1	Infrastructure as a Service (IaaS) on CRIS Cloud for 03 years	Nos.	1	49281491	49281491
		Sub Total (4.2)				49281491
		Total for Hardware Systems Costs (4.1+4.2)				50104369.48
5		Network Equipment/Infrastructure Costs				
	5.1	Internet Gateway and Managed Services per year at Primary DC				
	5.1.1	Internet Gateway and Managed Security services per year at Primary DC	Years	3	6329000	18987000
		Sub Total (5.1)				18987000
		Sub Total - (1+2+3+4+5)				197252664.64
6		3 years cost for running of the Project				

	6.1	Manpower for managing application, infrastructure & Security for 3 years operations				
	6.1.1	Assistant Software Engineer (4 Engineers)	Person Month	144	153076	22042944
	6.1.2	Software Engineers (2 Engineers)	Person Month	72	189547	13647384
	6.1.3	Project Engineer (2 Engineers)	Person Month	72	270046	19443312
	6.1.4	Principal Project Engineer (1 Engineer)	Person Month	36	455781	16408116
	6.2	Help Desk for 3 years (Technical)	Per Year	3	10786516.83	32359550.49
	6.3	Help Desk for 3 years (Operational)	Per Year	3	2322000	6966000
		Total of 3 years cost for running of the Project (6)				110867306.5
		Sub Total - Project Cost for 3 years (1+2+3+4+5+6)				308119971.13
7		Departmental Charges				
	7.1	CRIS Charges				
	7.1.1	ICT Innovation	% age	2.1		6470519.394
	7.1.2	Quality/ISO Certifications	% age	1.4		4313679.596
	7.1.3	CRIS Internal IT Systems (H/W & S/W) and Information Security	% age	1.4		4313679.596
	7.1.4	Procurement Services	% age	1.4		4313679.596
	7.1.5	Contingency Charges	% age	0.7		2156839.798
		Sub Total - Departmental Charges for CRIS (7.1)				21568397.98
	7.2	Railway Charges				
	7.2.1	Railway Departmental Charges @3%	% age	3		9243599.134
		Sub Total - Departmental Charges on above (7.1+7.2)				30811997.11
		Total project cost without Railway Departmental Charges (1 to 6 + 7.1)				329688369.11
		Grand Total Project Cost (1 to 6 +7.1+7.2)				338931968.24
		18% GST on Total Project Cost without Railway Departmental Charges				59343906.44
		Grand Toal Project Cost with 18% GST				398275874.68
		Rounded off				Rs. 39.83 Crore