GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)

No. 2020/C&IS/Project/Proposals/Umbrella 2020-21/2 Pt.1. New Delhi, Dated: 11.08.2021

The General Manager,
Northern Railway, New Delhi.

Sub:- Sanction of the work "Replacement of Existing Infrastructure of PRS DR".

Ref:- CRIS's letter No. 2020/CRIS/NDLS-HQ/CC/Proj/Workpropsl/0360/Pt-1 dated 18.02.2021.

Approval of Board (M/O&BD, Member/Finance and Chairman & CEO) is hereby communicated for the work "**Replacement of Existing Infrastructure of PRS DR**" of Northern Railway at a cost of Rs. 12.11 Crore (Rupees twelve crore and eleven lakh only) chargeable to "DRF" under the sanctioned Umbrella '**Information Technology related works on Indian Railways**' (Pink Book Item No. 242 of 2020-21 under Northern Railway).

This work is now appearing as PB Item No. 247e of 2021-22 under Northern Railway.

Item-wise cost of the work is appended as "Annexure".

The Project Management Establishment (PME) and Implementation charges taken for the project being implemented by CRIS is under review in Railway Board. Any changes thereof, would need to be taken into account at the time of preparation/sanctioning of the Detailed Estimate of this work.

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

Kuldeep 11/8/3

(Kuldeep Singh)
Director/Mech Engg(C&IS)

No. 2020/C&IS/Project/Proposals/Umbrella 2020-21/2 Pt.1. New Delhi, Dated: 11.08.2021

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.**

For Member Finance

Copy to :

1. **The Chief Administrative Officer(PTS), Northern Railway, IRCA Building, New Delhi.**
2. **Managing Director/CRIS, Chanakyapuri, New Delhi.**
3. **F(X)-II and Budget Branches of Railway Board.**

13/8/21

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Annexure

No. 2020/C&IS/Project/Proposals/Umbrella 2020-21/2 Pt.1. New Delhi, Dated: 11.08.2021

Break up of cost of the work of Replacement of existing infrastructure of PRS DR

SN	Items	Qty	Rate (Rs.)	Tax	Rate + Tax	Cost (Rs.)
1	**Hardware and Software for DR/DC**					
1.1	HP Integrity BL860i4 Blade servers, 2 CPU (8 core) with HP open OVMS 8.4 MCOE and HAOE Media, 3 year mission critical services	9	4695000	845100	5540100	49860900
1.2	Optical Fibre Cable, LC-LC, 15 metre	50	3885	699	4584	229200
1.3	Blade enclosures with 3 years mission critical support	2	2450000	441000	2891000	5782000
1.4	Man Days : Installation, Commissioning Services and Support	40	46000	8280	54280	2171200
1.5	SANOVI Server, HP Blade Servers	2	913186	164373	1077559	2155118
1.6	Man Days required for SANOVI installation	20	46000	8280	54280	1085600
1.7	Desktop PC	50	48000	8640	56640	2832000
1.8	CRIS Implementation Charge	10	213335	38400	251735	2517350
1.9	System integrator cost (8% of 1.1+1.2 +1.3 + 1.5)					4642179
	Sub Total (1)					**71275547**
2	**Network and Security Infrastructure required at DR DC Secunderabad**					
2.1	Central Routing Device in 1.1 HA mode required at DR DC for termination links from Tier -1 PRS locations	2	1625849	292653	1918502	3837004
2.2	Routing Device in 1.1 HA mode required at DR DC for termination replication links from primary central PRS DC	2	1625849	292653	1918502	3837004
2.3	L3 Switch type 1	2	2140010	385202	2525212	5050424
2.4	L3 Switch type 2	4	1200000	216000	1416000	5664000
2.5	L2 switch	2	300000	54000	354000	708000
2.6	Firewall 1:1 HA mode	2	6968483	1254327	8222810	16445620
2.7	Structured LAN Cabling DR DC	1	425720	76630	502350	502350

2.8	License cost of servers/OS instances for SIEM VA, NMS, HIBS etc @ 45000/-	18	45000	8100	53100	955800
	Sub Total Network Cost (2)					**37000202**
3	**Project Implementation Charges for network and security equipment (5% of Total Network Cost (2))**					1850010
4	**Total Network equipment/infrastructure cost (2+3)**					**38850212**
5	**Total (1+2+3+4)**					**110125759.00**
6	**CRIS Charges**					
6.1	ICT Innovation @ 3%					3303772.77
6.2	Quality/ISO Certifications @ 2%					2202515.18
6.3	CRIS Internal IT Systems (HW/SW) and Information Security @ 2%					2202515.18
6.4	Procurement Services @ 2%					2202515.18
6.5	Contingency Charges @ 1%					1101257.59
	Sub Total (7)					**11012575.9**
	Total (6+7)					**121138334.90**
	Grand Total (H+I)					**121138334.90**
	Rounded off					**12.11 crore**

11/8/21