Government of India
Ministry of Railways
(Railway Board)

No. 2006/C&IS/WP2007-08/AZR/UTS/10 New Delhi, Dated 22 .05.2007

The General Manager,
All Indian Railways.

Subject : Sanction for the work of "Extension of Unreserved Ticketing System on 16 Zonal Railways at "E" category stations : 16 individual works under Planhead 17 (Computerisation), proposed for inclusion in the Works Programme 2007-08".

As the Railways are aware, works relating to the extension of Unreserved Ticketing System has been included in the Pink Book for the year 2007-08. The details of the abstract cost and segment wise details are as under :-

(Figures in thousand)

Railway	PB item 2007-08	No of Locations	System	Electrical	Telecom	Civil	Establishment + CRIS Charges	Grand Total
Central	33	257	33667	39,835	100,487	6,425	24209	204,623
Eastern	34	148	19388	22,940	57,868	3,700	13942	117,838
East Central	46	204	26724	31,620	79,764	5,100	19217	162,425
East Coast	37	197	25807	30,535	77,027	4,925	18557	156,851
Northern	67	635	83185	98,425	248,285	15,875	59817	505,587
North Central	30	234	30654	36,270	91,494	5,850	22043	186,311
North Eastern	26	276	36156	42,780	107,916	6,900	25999	219,751
Northeast Frontier	32	386	50566	59,830	150,926	9,650	36361	307,333
North Western	35	391	51221	60,605	152,881	9,775	36832	311,314
Southern	40	457	59867	70,835	178,687	11,425	43049	363,863
South Central	55	363	47553	56,265	141,933	9,075	34195	289,021
South Eastern	26	176	23056	27,280	68,816	4,400	16579	140,131
South East Central	34	167	21877	25,885	65,297	4,175	15731	132,965
South Western	23	195	25545	30,225	76,245	4,875	18369	155,259
Western	39	437	57247	67,735	170,867	10,925	41165	347,939
West Central	31	201	26331	31,155	78,591	5,025	18934	160,036
Grand Total		4724	618844	732,220	1,847,084	118,100	444999	3,761,247

Steps are to be initiated by the Zonal Railways as under :-

1.0 After the last sanctioned UTS project on each of Zonal Railway, all balance "E" category stations of the Zonal Railway are to be covered under the project.

2.0 The detailed estimate should be prepared by the concerned Zonal Railway and then sent to Board for sanction. Yardsticks followed, while framing abstract estimates in Railway Board is placed at **Annexure A.**

3.0 The procurement of system peripherals and telecom equipment may be entrusted to CRIS after the approval of the General Managers of the Zonal Railways. Appropriate advance should be made to CRIS after the execution of MOU. Such advances should be adjusted against future bills raised by CRIS. The telecom network will be designed by CRIS, which should be IP based.

4.0 Media and route diversity including diversity of Service Providers may be planned so that down time is minimum. The cost of hiring of channels shall be charged to revenue.

5.0 Zonal Railways should undertake the work of site preparation including LAN wiring, civil and electrical works etc. at the locations.

6.0 The detailed estimates indicating names of locations, counters to be provided at each location, and segment wise details, should be submitted to Railway Board for sanction.

7.0 It may be ensured that the telecom networks are secure and dedicated for running the application under reference and do not share resources with any other application or with non railway users so that system security/efficiency is not compromised as this may lead to hacking/frauds.

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

(Chhatrasal Singh)
Director (C&IS)

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Copy to :

1. FA & CAO, and FA & CAO/Const, All Indian Railways

For Financial Commissioner/Railways

Copy to :

1. Chief Commercial Managers, All Indian Railways
2. Managing Director, CRIS, Chanakyapuri, New Delhi
3. F(X)-II and Budget Branches of Railway Board

	COST YARDSTICK FOR TYPICAL E CATEGORY LOCATION	ANNEXURE A		
	Equipment	**Quantity**	**Unit Cost**	**Total Cost**
(A)	**System**			
1	Dumb Terminal	0	9250	0
2	Embedded clients with OS and ASA RDBMS, managaement tools with spares	3	30000	90000
3	Ticket printers with spare (DMP)	3	9970	29910
4	Report printers	1	10350	10350
5	Terminals server with spare component	0.0	45000	0
6	Consumables like back up media etc	1	1000	1000
	Sub-total			131260.00
	Average System Cost (rounded off)			**131000**
(B)	**Electrical**			
1	UPS 2X 1 KVA with 2 hours battery backup with spare component	1.5	46700	70050
2	Copper plate earthing	1	5000	5000
3	Accessories like fans, lights, CFL fittings, exhaust fans etc (lump-sum amount)	1	5000	5000
4	AC for equipment room (2T) with stabilizers (24 hour operation)	1	25000	25000
5	Single phase DG set	1	50000	50000
	Sub-total			155050.00
	Average electrical Cost (rounded off)			**155000**
(C)	**Telecommunication**			
1	Cost component of Hub Router (Tier-1) connecting Tier 0 to Tier-1 hub	0.01	1250000	12500
2	Cost component of Tier-2 Hub Router to individual locations	0.05	1040000	52000
3	Cost component of LAN Switch at zonal center/ Tier-2 location	0.1	130000	13000
4	Modems (pair) with spares or STM-1 Equipments	1.1	90000	99000
5	Station Switch with spare component	1.1	20000	22000
6	Station Routers with spare component	1.1	140000	154000
7	Wiring beyond switch (Lumpsum)	1	30000	30000
8	Wiring upto switch (rack, Patch panels etc)	1	60000	60000
	Sub-total			390500.00
	Average S&T Cost (rounded off)			**391000**
(D)	**Civil Engineering**			
	Consolidated civil engineering cost	1	25000	25000
	Average Engineering Cost (rounded off)			**25000**
(E)	**Grand Total of Equipment Cost (A+B+C+D)**			**702000**
(F)	**CRIS charges**			
1	CRIS procurement charges on system and telecom hardware	5%	483500	24175
2	CRIS implementation and training charges @ 4 man-days (Rs. 1500 per man day)	4	1500	6000
	CRIS charges			30175.00
	Average CRIS Cost (rounded off)			**30200**
(G)	**Railway Establishment Charges**	8.80%	732175	64431.40
	Round Off			**64000**
	Standard Cost of one UTS location			**796200**

1. CRIS should set up suitable NMS

2. At Panel interlocked station where UTS is being provided the provision of Para A3(vii) and Para B of board's letter No.2002/Sig/PI/1 dated 9.7.02 may be complied with