GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)

No. 2017/C&IS/Project/UTS/Mobile Ticketing/11 **New Delhi, Dated: 17.07.2018**

The General Manager,
Northern Railway,
New Delhi.

Sub:- Sanction for the work of "Pan India rollout of UTS Mobile Ticketing".

Ref:- 1. CRIS's letter No. 2015/CRIS/NDLS/HQ/UTS/PROJECT/URTS/253/0203 dated 23.05.2018.
2. Board's letter No. 2018-B-106 dated 18.06.2018.
3. Board's letter No. 2015/C&IS/Project/Executing/32 dated 06.07.2018.

A new work **"Pan India rollout of UTS Mobile Ticketing" under the Pink Book Item No. 229/2018-19 of Northern Railway (Other Information Technology works on Indian Railways)** has been included in the Pink Book of the year 2018-19 as Item No. 229a of Northern Railway at the abstract cost of Rs. 46,02,90,000/- (Rupees forty six crore two lakh and ninety thousand only) under the allocation "DF-1" under the plan Head – 17 (Computerization).

Item-wise break up of cost is appended as "Annexure".

Vinita 17/7/18
(Vinita Narera)
Director Electronics(C&IS)

Copy to :-

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

Annexure

No. 2017/C&IS/Project/UTS/Mobile Ticketing/11 **New Delhi, Dated: 17. 07.2018**

Item-Wise break up of cost of the work of "Pan India rollout of UTS Mobile Ticketing"

S. No.		Work Item	Unit	Qty (Q1)	Basic Rate (R1)	GST Tax	Rate(R1)	Q1*R1 (In Rs.)
1	Application Software - Development (Resources) Costs							
	1.1	Asst Software Engineer	person-6 months	8	1,20,863.00	21,755.34	1,42,618.34	68,45,680.00
	1.2	Software Engineer	person-8 months	3	1,41,559.00	25,480.62	1,67,039.62	40,08,951.00
	1.3	Senior Software Engineer	person-6 months	5	1,63,922.00	29,505.96	1,93,427.96	58,02,839.00
	1.4	Senior Project Engineer	person-months	2	2,60,163.00	46,829.34	3,06,992.34	6,13,985.00
	1.5	Project Engineer	person-6 months	9	1,85,816.00	33,446.88	2,19,262.88	118,40,196.00
	1.6	Principle Project Engineer	person months	26	2,70,154.00	48,627.72	3,18,781.72	82,88,325.00
		Total Development (Resources) cost (1.1 to 1.6):						**373,99,975.00**
2								**Implementation, Training and Data Mgt. Costs**
	2.1	Training charges	days	90.00	12,000.00			10,80,000.00
		Total - Implementation, Training and Data Mgt. Costs (3) :						**10,80,000.00**
3								**SYSTEM SOFTWARE (Sys-SW) Costs**
	3.1	Operating System	Lic	50	1,75,890.00	31,660.20	2,07,550.20	103,77,510.00
	3.2	Application	Lic	29	16,24,859.32	2,92,474.68	19,17,334.00	556,02,686.00
	3.3	RDBMS	Lic	32	17,08,000.00	3,07,440.00	20,15,440.00	644,94,080.00
	3.4	Cache software	Lic	32	2,17,800.00	39,204.00	2,57,004.00	82,24,128.00
	3.5	SSL Certificate license	Lic	4	91,500.00	16,470.00	1,07,970.00	4,31,880.00
		Total - SYSTEM SOFTWARE (Sys-SW) Costs (3.1 to 3.5) :						**1391,30,284.00**
4								**HARDWARE Systems Costs (Mobile Application Server with three year warranty)**
	4.1							**Development /Pilot /Testing /Staging Environment**
	4.1.1	Server	Nos.	2	4,00,000.00	72,000.00	4,72,000.00	9,44,000.00
		Sub Total - (4.1) :						**9,44,000.00**
	4.2	**Production Environment**						
	4.2.1	Server Chassis	Nos.	5	10,00,000.00	1,80,000.00	11,80,000.00	59,00,000.00
	4.2.2	Server	Nos.	50	4,00,000.00	72,000.00	4,72,000.00	236,00,000.00
		Sub Total - (4.2) :						**295,00,000.00**

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	4.3	Hosting Datatbase and spatial server	Nos.	2	387,70,156	69,78,628.08	457,48,784.08	914,97,568.00
		Sub Total - (4.3) :						**914,97,568.00**
	4.4	Load Balancer (ADC)	Nos.	2	20,73,600.00	3,73,248.00	24,46,848.00	48,93,696.00
					Sub Total - (4.4) :			**48,93,696.00**
	4.5	Storage						
	4.5.1	San Storage	Nos.	1	65,00,000.00			65,00,000.00
	4.5.2	San Switch	Nos.	2	10,46,000.00	1,88,280.00	12,34,280.00	24,68,560.00
					Sub Total - (4.5) :			**89,68,560.00**
	4.6	Desktop for application development						
	4.6.1	Mac/Apple	Nos.	2	1,04,000.00			2,08,000.00
	4.6.2	Windows	Nos.	10	60,000.00			6,00,000.00
					Sub Total - (4.6) :			**8,08,000.00**
	4.7	Laptops	Nos.	8	80,000.00			6,40,000.00
					Sub Total - (4.7) :			**6,40,000.00**
	4.8	Printer	Nos.	2	75,000.00			1,50,000.00
					Sub Total - (4.8) :			**1,50,000.00**
	4.9	Backup Solution						
	4.9.1	Server	Nos.	1	10,00,000.00	lumpsum		10,00,000.00
	4.9.2	Tape library	Nos.	1	7,50,000.00			7,50,000.00
	4.9.3	LTO media	Nos.	90	4,950.00			4,45,500.00
					Sub Total - (4.9) :			**21,95,500.00**
	4.10	GPS device	Nos.	15	1,00,000.00	18,000.00	1,18,000.00	17,70,000.00
					Sub Total - (4.10) :			**17,70,000.00**
	4.11	Different low-end models of Mobile Handsets with connection for Testing & Development	Nos.	15	5,000.00			75,000.00
					Sub Total - (4.11) :			**75,000.00**
	4.12	Different High-end models of Mobile Handsets with connection for Testing & Development	Nos.	10	8,000.00			80,000.00
					Sub Total - (4.12) :			**80,000.00**
	4.13	Different smartphone models of Mobile Handsets with connection for Testing & Development	Nos.	20	15,000.00			3,00,000.00
					Sub Total - (4.13) :			**3,00,000.00**

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	4.14	Different Iphone models of Mobile Handsets with connection for Testing & Development	Nos.	6	70,000.00			4,20,000.00
		Sub Total - (4.14) :						**4,20,000.00**
		Total for HARDWARE Systems Costs (4.1 to 4.14):						**1422,42,324.00**
5	**Network Equipment / Infrastructure Costs**							
	5.1	Network & Security upgradation charges and bandwidth charges.	Nos.	1	733,66,057.00			733,66,057.00
	5.2	MPL link from wifi installed location to RIDC and related charges.	Lumpsum		144,00,000.00			144,00,000.00
		Total - Network Equipment /Infrastructure Costs (5) :						**877,66,057.00**
6	**Gateway Cost**							
	6.1	SMS service for 3 year	Lumpsum		108,27,219.00			108,27,219.00
		Total cost of Gateway (6):						**108,27,219.00**
7	**Sub-Total for Project costs (1+2+3+4+5+6)**							**4184,45,859.00**
8	**CRIS Charges @10 %**							
		Sub Total - CRIS Charges on above (7) :						**418,44,586.00**
	Grand Total - Project costs (7 + 8) :							**4602,90,445.00**
	Rounded off							**Rs. 46,02,90,000/-**

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