CHAPTER- 2 REVISED SCHEDULE OF REQUIREMENT

PACKAGE I: NORTHERN REGION

SOR HEAD I: IP BASED VIDEO SURVEILLANCE WORK AT STATIONS

						Na.	
SN.	Description of Item	Unit	Qty.	Unit Rate in Fig (in Rs.)	Total Cost in Fig. (in Rs.)	Unit Rate in Words (in Rs.)	Total Cost in words (in Rs)
(1)	(2)	(3)	Φ	(5)	(6)	(7)	(8)
	SCHEDULE 'A'						
1.	Supply, Installation, Testing. Commissioning and Integration of IP cameras at stations	(100 pp) (10					
(a)	Full HD fixed dome Type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No.	840				
(b)	Full HD Box/Bullet type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No	20032			To the second se	
(c)	Full HD P/T/Z type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No	2428		•		
(d)	4K UHD Box/Bullet type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No.	774				
<u>,</u> 2.	Supply, Installation, Testing and Commissioning of TT infrastructure, applications and associated items at RPF/GRP Thana/Post						
(a)	VSS Server Hardware etc. and all accessories required for installation purposes for Video recording, Video Analytic and Facial Recognition system as defined in clause 8.2, 8.3 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	Set	151				

1 | Page

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1-1-1-	dated 29-03-18						
	PC Workstation as defined in						
	clause 8.6 of chapter 8 for viewing,						
	monitoring and system manage-		1500 Stores				
	ment including 24" monitor, all re-						
(b)	quired licensed software, spike	No.	153	No.	,		
(0)		NO.			19.		
	buster 500VA UPS with backup for						
	30 minutes power failure without						
	interruption, and all other required					k.	
	accessories						
	Digital Key-Board (joystick) and	•					
(6)	all accessories compatible with	1N.T					
(c)	P/T/Z cameras as defined in clause	No.	153				
.	8.5 of chapter 8.						
	Large Format Display Monitor (40"						
(d)	or Higher) as defined in clause 8.7	No.	306				
188	of chapter 8.	110.					
1998	Storage System at RRF/GRP				**************************************		
	1004460760000000000000000000000000000000				182		
	Thana/Post sites for recording of						
	cameras from cluster of stations for						
	30 days as defined in clause 8.3, 8.4		Quantities				
(e)	of chapter 8 and all accessories re-	ТВ	to be speci-				
(-/ -)	quired for installation purposes.	117	fied by the				
	Detailed Bill of Material (BoM)		bidder				
	shall be prepared and submitted						-
1	along with the Bid as per SOR					, a	
	Note-VII				d		
	Type-III switches as defined in				.856	î .	
1	clause 8.10 of chapter 8 and all ac-				e la		
(f)	cessories required for their installa-	No.	302 🖏				
	tion	.a.	*15	Hills.			
	Next Generation Firewall (NGFW)		<u></u>	Triple."			
(4)	as defined in clause 8.14 of chapter						
(g)	8 along with management software	No.	0				
	& hardware and all accessories re-			·			
	quired for their installation		7				
	UPS 2x10KVA connected in paral-						
	lel redundant mode in separate						
(h)	chassis as per specifications defined		151	Management -			
	in clause 8.16 of chapter 8 and all		ja distant				
	accessories required for installation						
	19" 42U racks as per specification		A SANCE	Paragram Table	mana ana		<u> </u>
	defined in clause 8.22 of chapter 8	1					
	and all accessories like electrical			eorgeptKN situs	entralineurophinismet ()		
(i)	fitting (power strip, MCB etc.),	No.	151				
1							:
	Fantray, Patch Panel etc. required						
<u></u>	for installation of the equipment						

1"TJZ	dated 29-03-18						
	Supply and fixing of furniture for each Workstation quoted under item no. A.2 (b) i.e. one table						
(j)	(Model: Stylo Make: Godrej or su-	No.	153	ilijan_			
	perior), and two chairs (Model:	4			11.		
	PCH-7046A Make: Godrej or superior).						
-	2 nos. of 2 Ton Split AC (5 star or	Set	100000				
(k)	better) with external controller unit		151				
()	for AC change over for installation		1171				
	at RPF/GRP Thana/Post Supply, Installation, Testing and						
1 ,	Commissioning of IT infrastruc-						
3.	ture, applications and associated						
	items at RailTel datacenter(s).			7723			
	VSS Server Hardware for Video						4
	Management and Facial Recognition database system as defined in				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		124
	clause 8.2, 8.3 of chapter 8 and all						Į.
(a)	accessories required for installation		1				
	purposes. Detailed Bill of Material	Set				i i	
1	(BoM) shall be prepared and sub-						
	mitted along with the Bid as per SOR Note-VII.						
	Core switch as defined in clause		4				·
, ,	8.12 of chapter 8 along with all op-				, (i	, i	
(b)	tics (SFP/SFP+ as per solution re-	No.	2 1			,	
	quirement) and all accessories required for their installation		· ***		e ^c '		
	Type-III switches as Top of the	į.					
	Rack switch in (1+1) as defined in			tegen S			
	clause 8.10 of chapter 8 and all ac-		Quantities				
(c)	cessories required for their installation. Detailed Bill of Material	No.	to be speci-		:		
	(BoM) shall be prepared and sub-		fied by the bidder				
	mitted along with the Bid as per						
	SOR Note-VIII.						
	Next Generation Firewall (NGFW)	n					
	at RailTel Datacenters as defined in				3		
(d)	clause 8.14 of chapter 8 along with management software & hardware	No.	2				
	and all accessories required for						
	their installation			9566			
			. Maria sa april 1 maria de la companya de la compa	V-64855-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	ibra. (Aliante)		***************************************



/434	dated 29-03-18						
	Storage System for recording of						
	alerts, alarms of cameras of analyt-						
	ics and other applications require-		ER DESIGNATION				
(e)	ment as defined in clause 8.3 and	ТВ	240	Maha.			
`	8.4 of chapter 8. Detailed Bill of	;			- -		
	Material (BoM) shall be prepared						
	and submitted along with the Bid as						
	per SOR Note-VII. EMS in RailTel Datacenters						
	(Gurugram and Secunderabad) as						
(f)	per specification defined in clause						
	8.23 of chapter 8						
i.	Hardware	Set	2				
				*91			
ii.	Software	Set	2				.
	Nos of racks proposed to be com-						
	missioned in the Data Centre of			800000			
(g)	RailTel under the proposed solution	Nos.		x8≔ 640000			
	by the bidder (Please refer to Note-			0			
	XVII with corrigendum)						
İ	Supply, Installation, Testing and						
	commissioning of software (per						
	camera basis) for Video Manage-						
	ment, Video recording, Video Ana-				į		
	lytic and Facial Recognition system						
	(FRS licenses equal to Nos. of 4K	_	"1		" Sign		,
4.	UHD cameras) for the server hard-	Set	151				
	ware quoted in Item no. A 2(a) as	هد	~				
	defined in clause 8.3 of chapter 8.			WHEN .			
	Detailed Bill of Material (BoM)						
	shall be prepared and submitted						
	along with the Bid as per SOR Note-VII.						
	Supply, Installation, Testing and						
	commissioning of Graphical User						
	Interface based Client Software						
5.	(per workstation basis) for work-	No.	153	i i i i i i i i i i i i i i i i i i i	*		
	station as quoted in Item no. A.2(b)		and the second				
	along with as defined in clause 8.3						
	of chapter 8.	A Section					
	Supply, Installation, Testing and	Section 1972		EAGLEST!	"#INTERNATION CONTROLLEGISM"		
6.	Commissioning of IT infrastructure				ha. Allina		
"	and associated items at Railway						
	Stations						
	Supply of Video Recording & Pro-						
(a)	cessing Unit for non RPF stations				ja.		
`	as per specification defined in						
	clause 8.18 of chapter 8			<u> </u>	<u> </u>	<u></u>	

P	dated 29-03-18	·	
i. ,	For Category C (Sub-urban) plat- forms/stations	No.	Deleted
ii.	For Category D and E plat- forms/stations	No.	Quantities to be specified by the bidder
(b)	Type-I switches as defined in clause 8.8 of chapter 8, optics (SFP-BX as defined in clause 8.13 of chapter-8 and quantity as per solution requirement & network design defined in clause 3.B of Chapter-3) and all accessories required for their installation. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	No.	4766
(c)	Type-II switches as defined in clause 8.9 of chapter 8, optics (SFP-BX (10KM) Single Fiber, SFP+ (10KM) and SFP+ (40 KM) Single Fiber as defined in clause 8.13 of chapter-8 and quantity as per solution requirement) and all accessories required for their installation	No.	1961
(d)	Type-IV switches as defined in clause 8:11 of chapter 8, optics (SFP+ (10KM), SFP+ (40 KM), Single Fiber, SFP+ (350 mtr.), and SFP 1G (10KM) as defined in clause 8:13 of chapter-8 and quantity as per solution requirement) and all accessories required for their installation	No.	302
(e)	24 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8, 19 9U racks as per specification defined in clause 8.21 of chapter 8 and all accessories like power strip, MCB, Fantray, Patch Panel, patch chord, pigtails etc. required for their installation	No	1961

12 Fibre FMS (SC APC Type) as per specifications defined in clause 8.20 of chapter 8 and 8.21 of chapter 8 and 81 accessories like power strip, MCB Fantray, Patch Pancl, patch chord, pigtails etc. required for their installation. Online UPS system, single phase of rating 1KVA UPS along with Battery suitable for lhr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation. Online UPS system, single phase of rating 2KVA UPS along with Battery suitable for lhr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation. Online UPS system, single phase of rating 2KVA UPS along with Battery suitable for lhr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories (less than 1 Ohm) as per test equired for installation. MFCE Earth complete with all accessories (less than 1 Ohm) as per technical specifications defined in chapter 5 of Section-1 Thos indicates the site of installation). ACDB for AC distribution Box with Lock-and key arrangements ings as per site requirements for installation at sites. Panic Switch (IKIO and IP66 rated) with Mulshroom Cap Push-Button in Red Color, JRDT contacts 2 Amps 24 VDC, Stanless Steel 2 Amps 24 VDC, Stanless Steel 5 and 1 Ohm) as per site requirements for installation at sites. Panic Switch (IKIO and IP66 rated) with Mulshroom Cap Push-Button in Red Color, JRDT contacts 2 Amps 24 VDC, Stanless Steel 5 and 1 Ohm) and 1 Odd including all accessories required for installation on platforms at stations (with accessories on wall or singtime etc. a) of in with all accessories on wall or singtime etc. a) of in with all accessories on wall or singtime etc. a) of in with all accessories on wall or singtime etc. a) of in with all accessories on wall or singtime etc. a) of in with all accessories on wall or singtime etc. a) of in with all accessories on wall or singtime etc. a) of installation, laying fixely & data of the proper of the proper of the prop	/432	dated 29-03-18						
g. 2.0 of chapter 8, 19" 9U racks as per specification defined in clause 8.2.1 of chapter 8 and all accessories like power strip, MCB, Fantray, Patch Pancl, patch chord, pigtails etc. required for their installation. Online UPS system, single phase of rating 1KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation. Online UPS system, single phase of rating 2KVA UPS along with Pattery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation. MFCP Earth complete with all accessories required specifications defined in chapter 5 of Section-II (No. ardicates the site of installation). ACDB for AC distribution Box with Lock and key arrangements and ISI mark MCPs of various ratings as per site requirements for installation at sites. Panic Switch (IK 10 and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2 Amps 24 VDC, Stainless Steel Panic Switch (IK 10 and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2 Amps 24 VDC, Stainless Steel Panic Switch (IK 10 and IP66 rated) suitable size such lastic clambs strong of min. 100dB including all accessories required for installation on platforms at stations (with accessories on wall or structure of pipe for work at Stations (with accessories on wall or structure act, aldig with all accessories required for installation and cutting as it is a specificationas defined in chapter 8).		12 Fibre FMS (SC-APC Type) as per specifications defined in clause						
per specification defined in clause 8.21 of chapter 8 and all accessories like power strip, MCB. Fantray, Patch Panel, patch chord, pigtails etc. required for their installation Online UPS system, single phase of rating IKVA UPS along with Baltery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation Online UPS system, single phase of rating ZKVA UPS along with Baltery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation MFCE Earth complete with all accessories required for installation MFCE Earth complete with all accessories (less than 10 mm as per technical specifications defined in chapter 5 of Section-II (Nos indicates the site of installation) ACDB for AC distribution Box with Lock and key arrangements and ISI mark MCBs of various ratings as per site requirements for installation at sites Panic Switch (IK10 and IP66 rated) with Mushroom Cap Push-Button in Red Color, pBDT contacts 2Amps 24 VDC, Stainless Steel Race Plate with GI direction Box of suitable size and IRsh etc. mistrobe of min. 100dB including all accessories required for installation on platforms at statons Supply, Blowing Pulling/laying of cables, PVC pipe united in pipe for work at Stations (with accessories on wall or structure cate, along with all accessories required for installation, laying fixing clamping and cutting as per specification as defined in claiper 8).				3854 Dunca				
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Fantray, Patch Panel, patch chord, pigtails etc. required for their installation Online UPS system, single phase of rating IKVA UPS along with Baitery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation Online UPS system, single phase of rating ZKVA UPS along with Baitery suitable for 1hr back-up as per specifications defined in clause 8.16 or chapter 8 and all accessories required for installation MFCE Earth complete with all accessories required for installation MFCE Earth complete with all accessories required for installation) ACDB for AC distribution Box with Lock and key arrangements and ISI mark MCBs of various ratings as per site requirements for installation at sites Panic Switch (IKIO and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2Amps 24 VDC, stainless Steel (k) Face Plate with GTunction Box of suitable sized and Isl in complete for installation on platforms at stantons Supply, Blowing Pulling/laying of cables, PVC pipe and GI pipe for work at Stations (with accessories on wall ongrittentine etc. aloing with all accessories required for installation, laying disarding and cutting as per specification tast defined in chapter 8.	(110.	1,00				
pigtalis etc. required for their installation Online UPS system, single phase of rating 1KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause, 8,16 of chapter 8 and all accessories required for installation Online UPS system, single phase of rating 2KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause, 8,16 of chapter 8 and all accessories required for installation MFCE Earth complete with all accessories required for installation ACDE for AC distribution Box with Lock and key arrangements and ISI mark MCBs of various ratings as per site requirements for installation at sites Panic Switch (IK10 and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2Amps 24 VDC, Stainless Steel (k) Face Plate with GI unction Box of suitable size and ILaster cumistrobes of min. 100dB including all accessories required for installation on platforms at stations Supply, Blowing Pulling/laying of cables, PVC pipe and GI pipe for work at Stations (with accessories on wall or structure, etc., along with all accessories required for installation, laying flusting relamining and cutting as per specification as defined in chapter 8).								
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8. Supply of Média Convertor Pair as defined in clause 8.15. of chapter 8. 9. Spares @ 8% of supply against item A.1 (a) to A.1(d), A.2 (f), A.6 (b) to A.6 (d) above as defined in clause 3.D.8.1 in chapter 3. Supply and installation of bracket/fixture/Angle for fixing of camera at stations 10. Engineering works at RPF/GRP Thana/Post @ Rs. 50,000/- Total Cost of Schedule – 'A' SN Description of Item Unit Qty. Incremental % Cost (In Fig.) Incremental % Cost (In Fig.)	g	'	Mtr	18030				
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defined in clause 8 15 of chapter 8. Spares @ 8% of supply against item A.1 (a) to A.1(d), A.2 (t), A.6 (b) to A.6 (d) above as defined in clause 3.D.8.1 in chapter 3. Supply and installation of bracket/et/fixture/Angle for fixing of camera at stations 11. Engineering works at RPF/GRP/Thana/Post @ Rs. 50,000/- Total Cost of Schedule — 'A' SN Description of Item Unit Qty. Incremental % Cost (In Fig.) Incremental % Cost (In Words.)								
defined in clause 8 15 of chapter 8. Spares @ 8% of supply against item A.1 (a) to A.1(d), A.2 (t), A.6 (b) to A.6 (d) above as defined in clause 3.D.8.1 in chapter 3. Supply and installation of bracket/et/fixture/Angle for fixing of camera at stations 11. Engineering works at RPF/GRP/Thana/Post @ Rs. 50,000/- Total Cost of Schedule — 'A' SN Description of Item Unit Qty. Incremental % Cost (In Fig.) Incremental % Cost (In Words.)	_	Supply of Media Convertor Pair as						
Spares @ 8% of supply against item A.1 (a) to A.1(d), A.2 (f), A.6 (b) to A.6 (d) above as defined in clause 3.D.8.1 in chapter 3. Supply and installation of bracket/fixture/Angle for fixing of camera at stations Engineering works at RPF/GRP No. 151 Total Cost of Schedule – 'A' No. 151 Total Cost of Schedule – 'A' Unit Qty. Incremental % Cost (In Words.) (1) (2) (3) (4) (5) (6) (7) (8)	8.		No.	76				
9. item A.1 (a) to A.1(d), A.2 (f), A.6 (b) to A.6 (d) above as defined in clause 3.D.8.1 in chapter 3. 10. Supply and installation of bracket/fixture/Angle for fixing of camera at stations 11. Engineering works at RPF/GRP Thana/Post @ Rs. 50,000/- Total Cost of Schedule - 'A' SN Description of Item Unit Qty. Incremental % Cost (In Fig.) Incremental % Cost (In Words.)							1000000000	
Supply and installation of brack-et/fixture/Angle for fixing of camera at stations Single France No. Single France Single France No. Single France Single France No. Single France Singl								
Clause 3.D.8.1 in chapter 3. Supply and installation of bracket/fixture/Angle for fixing of camera at stations	9.		Lot.					
Supply and installation of brack- et/fixture/Angle for fixing of camera at stations 11. Engineering works at RPF/GRP Thana/Post @ Rs. 50,000/- Total Cost of Schedule – 'A' SN Description of Item Unit Qty. Incremental % Cost (In Fig.) (1) (2) (3) (4) (5) (6) (7) (8)			200					
10. et/fixture/Angle for fixing of camera at stations 11. Engineering works at RPF/GRP Thana/Post @ Rs. 50,000/- Total Cost of Schedule — 'A' SN Description of Item (1) (2) (3) (4) (5) (6) (7) (8)). }		
era at stations		Supply and installation of brack-				.63	2	
Engineering works at RPF/GRP No. 151 Total Cost of Schedule – 'A' SN Description of Item Unit Qty. Incremental % Cost (In Fig.) Incremental % Cost (In Words.)	10.	et/fixture/Angle for fixing of cam-	No.	826				
Total Cost of Schedule – 'A' No. 151 Total Cost of Schedule – 'A' Unit Qty. Incremental % Cost (In Words.) (1) (2) (3) (4) (5) (6) (7) (8)		era at stations			ila.	21"		ı
Total Cost of Schedule – 'A' No. 151 Total Cost of Schedule – 'A' Unit Qty. Incremental % Cost (In Words.) (1) (2) (3) (4) (5) (6) (7) (8)	4.4	Engineering works at RPF/GRP	I	- Mari				
Total Cost of Schedule – 'A' SN Description of Item Unit Oty. Incremental % Cost (In Words.) (1) (2) (3) (4) (5) (6) (7) (8)	11.		No.	151				
SN Description of Item Unit Qty. Incremental % Cost (In Words.) (1) (2) (3) (4) (5) (6) (7) (8)								
SN Description of Item Unit Qty. Incremental % Cost (In Fig.) Cost (In Words.) (1) (2) (3) (4) (5) (6) (7) (8)	<u> </u>	Total Cost of Schedule - 'A'						
SN Description of Item Unit Qty. Incremental % Cost (In Fig.) Cost (In Words.) (1) (2) (3) (4) (5) (6) (7) (8)							Y	on 401 07
(1) Description of item (2) (3) (4) (5) (6) (7) (8)	CINT	Degarintian	¥Y		Increm	iental %		
	וומ	Description of item	Unit	Uty.	Cost (I	n Fig.)	Cost (II	words.)
					`	- -		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SCHEDULE =:B'		SCHEDULE = 'B'						



	Incremental AMC charges after							
	warranty period as percentage of							
	overall cost (excluding taxes and	ALTERNATION OF THE PROPERTY OF	OF Starte					
	duties) of Supply portion of			H Hillinger				
	Schedule – 'A' over and above	1			1365 1151 151		·	
	3.5%. Only incremental % cost in					Ha Wata		
	addition to 3.5 % mentioned in							·
	clause 4.A.3 of Chapter-4 required							
1	to fulfill Long Term Maintenance	Year						
1	support clause. (E.g. if the annual	S	i D	ğ ile iş		0.000		
	AMC cost is proposed to be 4% the							
	quoted % should be (+) 0.5 % per							
	annum under column 5 & 6. For							
	five years it should separately be	į						
	shown as (+) 2.5 % under column 7				77			
	& 8. For clarity, detailed scope of							is a second
	AMC be read in clause 4.A.3 of						i prosenium si	
	Chapter-4			2017 2017 2017 2017				
	Total Cost of Schedule – B?							
	Total Value of Schedule - 'A'							
	and Schedule – 'B'							
	Total Value of SOR in Words:							
	AMERICAN PROPERTY OF THE PROPE		514 600000 1000	0.028			**************************************	

SOR HEAD II: SUPPORT ENGINNERS, TRAININGS AND COMMAND AND CONTROL CENTER FOR SURVEILLANCE NETWORK AT STATIONS

sn.	Description of Item	. Unit	Qty.	Unit Rate in Fig (in Rs.)	Total Cost in Fig. (in Rs.)	Unit Rate in words (in Rs.)	Total Cost in words (in Rs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Manpower Support during warranty period						
<u>(a)</u>	L1 support engineer in Field (@ defined per annum rate of Rs.3,00000/-)	Man- Years	302*				
(b)	L2 support engineer in RailTel Datacenter (@ defined per annum rate of Rs. 6,00000/-)	Man- Years	12*				
2.	Training of personnel over and above the on-site training, during the installation, maintenance and supervision period as detailed in the tender document.	Man- weeks	1510				

1432	dated 29-05-18					
	Supply, Installation, Testing and					
ŀ	Commissioning of Command Con-					
	trol Center as per functional re-		25 25 A Centro			
	quirements and Video wall display	4		lea Nasana		
	as per specification defined in		ig (6			
3.	clause 8.26 of chapter 8 and all ac-	No.	1			
	cessories required for their installa-					
	tion. Detailed Bill of Material				\$.,	
	(BoM) shall be prepared and sub-	Syre				
ļ	mitted along with the Bid as per	.,				
	SOR Note-VII.					
	Total Cost of Schedule					
	Total Value of SOR Head-1 and					
	SOR Head-II					
	Total Value of SOR in Words:					

PACKAGE II: WESTERN

SOR HEAD I: IP BASED VIDEO SURVEILLANCE WORK AT STATIONS

SN.	Description of Item	Unit	Qty.	Unit Rate in Fig (in Rs.)	Total Cost in Fig. (in Rs.)	Unit Rate in words (in Rs.)	Total Cost in words (in Rs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SCHEDULE 'A'						
1.	Supply, Installation, Testing, Commissioning and Integration of IP cameras at stations						
(a)	Full HD Fixed dome type IP colour camera along with housing and mount and all accessories required	No.	758				
	for installation purposes as defined, in clause 8.1 of chapter 8.						
(b)	Full HD Box/Bullet type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No	13426	illustrina illustrina illustrina			

_/432	dated 29-03-18						
	Full HD P/T/Z type IP colour cam-						
	era along with housing and mount						
(c)	and all accessories required for in-	No	1731				
	stallation purposes as defined in						
	clause 8.1 of chapter 8.	7.00					
	4K UHD Box/Bullet type IP col-			100010010010	3.5		
	our camera along with housing				i i i i i i i i i i i i i i i i i i i		
(d)	and mount and all accessories re-	No.	808				
`-'	quired for installation purposes as	110.		Salbasas Salas			
	defined in clause 8.1 of chapter 8.						
	Supply, Installation, Testing and					Holis Bibs Bibliografia	
	Commissioning of IT infrastruc-			ga birdi o			
2.	ture, applications and associated						
	items at RPF/GRP Thana/Post						
iil	VSS Server Hardware etc. and all			ustii			
	accessories required for installation				1 6 6		
	purposes for Video recording, Vid-						
	eo Analytic and Facial Recognition				``!		
(a)	system as defined in clause 8.2, 8.3	Set	1.03				\$
(0)	of chapter 8. Detailed Bill of Mate-	Set	105				
	rial (BoM) shall be prepared and						
general)	submitted along with the Bid as per						
· · · · ·	SOR Note-VII						
**********	PC Workstation as defined in						
	clause 8.6 of chapter 8 for viewing,						
	monitoring and system manage-				ź		
	ment including 24" monitor, all re-						
(b)	quired licensed software, spike	No.	107				
(5)	buster 500VA UPS with backup for	NO.		Mar.	"		
	30 minutes power failure without	j 35.	""				
	interruption, and all other required		;				
			:				
-	Digital Key-Board (joystick) and						
1.	all accessories compatible with		and the same of th				
(c)	P/T/Z cameras as defined in clause	No.	107				
	8.5 of chapter 8.						
	Large Format Display Monitor (40"		THE CONTRACTOR OF THE CONTRACT				
(d)	or Higher) as defined in clause 8.7		4.17				
l (u)	of chapter 8.	INO.	214				
-	Storage System at RPF/GRP		(F* # 1)	April 19			
	Thana/Post sites for recording of						
	cameras from cluster of stations for	Till.					
	.	788003820.	Ounce 4:4:		"ENABLES SET		
	30 days as defined in clause 8.3, 8.4	Maria Maria	Quantities	- parintal de la companya de la comp	ina suiden		
(e)	of chapter 8 and all accessories re-	TB	to be speci-				
	quired for installation purposes. Detailed Bill of Material (BoM)		fied by the				
			bidder				
	shall be prepared and submitted		Name and American	1.00		EMELL.	
	along with the Bid as per SOR Note-VII.						
	1 11016- V 11.					<u> </u>	

7732	dated 29-03-18						
(f)	Type-III switches as defined in clause 8.10 of chapter 8 and all accessories required for their installation	No.	206	5t			
(g)	Next Generation Firewall (NGFW) as defined in clause 8.14 of chapter 8 along with management software & hardware and all accessories required for their installation	No.	0				
(h)	UPS 2x10KVA connected in parallel redundant mode in separate chassis as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation	Set	103				
(i)	19" 42U racks as per specification defined in clause 8.22 of chapter 8 and all accessories like electrical fitting (power strip, MCB etc.), Fantray, Patch Panel etc. required for installation of the equipment	No.	103				
(j)	Supply and fixing of furniture for each Workstation quoted under item no. A.2(b) i.e. one table (Model: Stylo Make: Godrej or superior), and two chairs (Model: PCH-7046A Make: Godrej or superior).	No.	107				
(k)	2 nos. of 2 Ton Split AC (5 star or better) with external controller unit for AC change over for installation at RPF/GRP Thana/Post	Set	103				
3.	Supply, Installation, Testing and Commissioning of IT infrastructure, applications and associated items at RailTel datacenter(s)						
(a)	VSS Server Hardware for Video Management and Facial Recognition database system as defined in clause 8.2, 8.3 of chapter 8 and all accessories required for installation purposes. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	Set	1				
(b)	Core switch as defined in clause 8.12 of chapter 8 along with all optics (SFP/SFP+ as per solution requirement) and all accessories required for their installation	No.	NIL.	NIL	NIL	NIL	NIL

_/432	dated 29-03-18						
(c)	Type-III switches as Top of the Rack switch in (1+1) as defined in clause 8.10 of chapter 8 and all accessories required for their installation. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per	No.	Quantities to be specified by the bidder				
(d)	SOR Note-VII. Next Generation Firewall (NGFW) at RailTel Datacenters as defined in clause 8.14 of chapter 8 along with management software & hardware and all accessories required for their installation	No.	NIL.	NIL	NIL	NIL ,	NIL
(e)	Storage System for recording of alerts, alarms of cameras of analytics and other applications requirement as defined in clause 8.3 and 8.4 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	ТВ	240				control programme is
(f)	EMS in RailTel Datacenters (Gurugram and Secunderabad) as per specification defined in clause 8.23 of chapter 8						
i.	Hardware	Set	2	â.	100	ā.	
ii.	Software	Set	2				
4.	Supply, Installation, Testing and commissioning of software (per camera basis) for Video Management, Video recording, Video Analytic and Facial Recognition system (FRS licenses equal to Nos. of 4K UHD cameras) for the server hardware quoted in Item no. A 2(a) as defined in clause 8.3 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.		193				
5.	Supply, Installation, Testing and commissioning of Graphical User Interface based Client Software (per workstation basis) for workstation as quoted in Item no. A.2(b) along with as defined in clause 8.3 of chapter 8.	No.	107				

/432	dated 29-03-18			*		
6.	Supply, Installation, Testing and Commissioning of IT infrastructure and associated items at Railway Stations					
(a)	Supply of Video Recording & Processing Unit for non RPF stations as per specification defined in clause 8.18 of chapter 8					
i.	For Category C (Sub-urban) plat- forms/stations	No.	Quantities to be speci- fied by the bidder			
ii.	For Category C (others), D and E platform/stations	No.	Quantities to be speci- fied by the bidder			
(b)	Type-I switches as defined in clause 8.8 of chapter 8, optics (SFP-BX as defined in clause 8.13 of chapter-8 and quantity as per solution requirement & network design defined in clause 3.B of Chapter-3) and all accessories required for their installation. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	No.	3228			
(c)	Type-II switches as defined in clause 8.9 of chapter 8, optics (SFP-BX (10KM) Single Fiber, SFP+ (10KM) and SFP+ (40 KM) Single Fiber as defined in clause 8.13 of chapter-8 and quantity as per solution requirement) and all accessories required for their installation		1314			
(d)	Type-IV switches as defined in clause 8.11 of chapter 8, optics (SFP+ (10KM), SFP+ (40 KM). Single Fiber, SFP+ (350 mtr.) and SFP 1G (10KM) as defined in clause 8.13 of chapter-8 and quantity as per solution requirement) and all accessories required for their	No.	206			
	installation		America September 1			<u> </u>

24 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8, 19" 9U racks as per specification defined in clause (e) 8.21 of chapter 8 and all accessories like power strip, MCB Fantray, Patch Panel, patchichord, pigtails etc. required for their installation 12 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8, 19" 9U racks as per specifications defined in clause 8.21 of chapter 8 and all accessories like power strip, MCB, Fantray, Patch Panel, patch chord, pigtails etc. required for their installation Online UPS system, single phase of rating IKVA UPs along with Batter, specifications defined in clause 8.16 of chapter 8 and all accessories required for installation Online UPS system, single phase of rating IKVA UPS along with Battery suitable for 1rb back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation MFCE Earth complete with all accessories required for installation MFCE Earth complete with all accessories required for installation MFCE Earth complete with all accessories the site of installation of sites the site of installation ACDB for AC distribution Box with Lock and Res of various ratings as per site requirements for installation at sites Panic Switch (IR 0 and IP66 rated) with Mushroom Cap Fish-Bittion in Red Color, DPDT contacts 2Amps 24 VDC Stainless Steel (k) Face Plate with GI function Box of suitable size and flashed units trobe	(e)							
8.20 of chapter 8, 19" 9U racks as per specification defined in clause features. No. 1314 [8] Eantray, Patch Panel, patch chord, pigtails etc. required for their installation. 12 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8, 19" 9U racks as per specifications defined in clause 8.20 of chapter 8 and all accessories like power strip, MCB, Fantray, Patch Panel, patch chord pigtails etc. required for their installation. Online UPS system, single phase of rating 1KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation. Online UPS system, single phase of rating 2KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation. Online UPS systems, single phase of rating 2KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation. MFCE Earth complete with all accessories (less than 1 Ohm) as per (i) technical specifications defined in clause 6.10 for AC distribution Box with Lock and Key atrangements of installation at sites. Panic Switch (IK, IO and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2Amps 24 VDC. Stainless/Steel.	(e)	24 Fibre FMS (SC-APC Type) as	į					
per specification defined in clause 8.21 of chapter 8 and all accessories like power strip, MCB Fantray, Patch Panel, patch chord, pigtails etc. required for their installation 12 Fibre FNS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8, 19" 9U racks as per specification defined in clause 8.21 of chapter 8 and all accessories like power strip, MCB, Fantray, Patch Panel, patch chord pigtails etc. required for their installation Online UPS system, single phase of rating IKVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation Online UPS system, single phase of rating IKVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation MFCE Earth complete with all accessories required for installation MFCE Earth complete with all accessories required for installation ACDB for AC distribution Box with Lock and Key arrangements. (i) ACDB for AC distribution Box with Lock and Key arrangements. (ii) and ISI mark MCBs of various ratings as per site requiredness for installation at sites Panic Switch (IK 0 and 1966 rated) with Mushroom Cap Pish-Button in Red Color, DPDT contacts 2 Amps 24 WDC Stainless/Steel (k) Face Plate with GJ Junction Box of suitable size and flasher cum strobe	(e)	per specifications defined in clause						
per specification defined in clause 8.21 of chapter 8 and all accessories like power strip, MCB Fantray, Patch Panel, patch chord, pigtails etc. required for their installation 12 Fibre FNS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8, 19" 9U racks as per specification defined in clause 8.20 of chapter 8, 19" 9U racks as per specification defined in clause 8.20 of chapter 8, and all accessories like power strip, MCB, Fantray, Patch Panel, patch elond pigtails etc. required for their installation Online UPS system, single phase of rating IKVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation Online UPS system, single phase of rating 2KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation MFCE Earth complete with all accessories required for installation MFCE Earth complete with all accessories required for installation ACDB for AC distribution Box with Lock and Ikka vargangements. (i) and ISI mark MCBs of various ratings as per site requirements for installation at sites Panic Switch (IKIQ and IR66 rated) with Mushroom Cap Push-Bittion in Red Color, DPDT contacts (k) Face Plate with Gl function Box of suitable size and flashenguini strobe	(e)	~ - 1	September	111111111111111111111111111111111111111				
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ries like power strip, MCB, Fantray, Patch Panel, patch chord, pigtails etc. required for their instal- lation 12 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8, 19" 9U rack as per specification defined in clause 8.20 of chapter 8 and all accesso- ries like power strip, MCB, Fantray, Patch Panel, patch chord, pigtails etc. required for their instal- lation Online UPS system, single phase of rating 1KVA UPS along with Bat- tery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accesso- ries required for installation Online UPS system, single phase of rating 2KVA UPS along with Bat- tery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accesso- ries required for installation MFCE Earth complete with all ac- cessories. (less than 1 Ohm) as per tit technical specifications defined in chapter 5 of Section-II (Nos. indi- cates the site of installation) ACDB for AC distribution Box with Lock and key arrangements and 1SI mark MCBs oftyarious rat- ings as per site requirements for installation at sites Panic Switch (IKIQ and IP66 rated) with Mushroom Cap Pūsh-Button in Red Color, DPDT contacts 2Amps 24 VDC Stainless Sfeel Face Plate with GU Junction Box of suitable size and flasher gumstrobe			No	1314				
Fantray, Patch Panel, patch chord, pigtails etc. required for their installation 12 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8, 19° 9U racks as per specification defined in clause (8.21 of chapter 8 and all accessories like power strip, MCB, Fantray, Patch Panel, patch chord, pigtails etc. required for their installation Online UPS system, single phase of rating 1KVA UPS along with Batter syntiable for 1th back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation Online UPS system, single phase of rating 2KVA UPS along with Batter squired for installation Online UPS system, single phase of rating 2KVA UPS along with Batter squired for installation Online UPS and all accessories required for installation MFCE Earth complete with all accessories required for installation MFCE Earth complete with all accessories (less than 1 Ohm) as per technical specifications defined in chapter 5 of Section-II (Nos. indicates the site of installation) ACDB for AC distribution Box with Lock and key arrangements and ISI mark MCBs oflyarious ratings as per site requirements for installation at sites Panic Switch (IK10 and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2 Amps 24 VDC Stainless Steel Face Plate with GI. Junction Box of suitable size and flasher cum strope			110.	1311				
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SN (1)	Description of Item (2)	Unit (3)	Qty		nental % in Fig.)		mental % in Words.)
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	Total Cost of Schedule - 'A'						
11.	Engineering works at RPF/GRP Thana/Post @ Rs. 50,000/-	No.	103				
10.	Supply and installation of brack- et/fixture/Angle for fixing of cam- era at stations		460			5	
9.	Spares @ 8% of supply against item A.1 (a) to A.1(d), A.2 (f), A.6 (b) to A.6 (d) above as defined in clause 3.D.8.1 in chapter 3.	Lot.					
8.	Supply of Media Convertor Pair as defined in clause 8.15 of chapter 8.	No.	52				
g	GI pipe	Mtr	11140			*	
f	40mm dia. HDPE pipe	Mtr	55700		:		
е	32mm PVC flexible pipe,	Mtr	90500				
d	32mm PVC conduit pipe (ISI mark)	Mtr	1621385				
c.	PVC insulated 3 core 4 Sq. mm (1.1 KV grade) outdoor strengthened Copper Cable for UPS supply distribution (as per BIS/ISI standards)	Mtr	760748				
b.	12 Core metal strengthened outdoor unarmored Optic Fiber Cable (ITU-T G.652.D)	Mtr	507165				
a.	STP CAT-6	Mtr	420313				
7.	Supply, Blowing/Pulling/laying of cables, PVC pipe and GI pipe for work at Stations (with accessories on wall or structure etc. along with all accessories required for installation, laying, fixing, clamping and cutting as per specification as defined in chapter 8)						

1	Incremental AMC charges after warranty period as percentage of overall cost (excluding taxes and duties) of Supply portion of Schedule – 'A' over and above 3.5%. Only incremental % cost in addition to 3.5 % mentioned in clause 4.A.3 of Chapter-4 required to fulfill Long Term Maintenance support clause. (E.g. if the annual AMC cost is proposed to be 4% the quoted % should be (+) 0.5 % per annum under column 5 & 6. For five years it should separately be shown as (+) 2.5 % under column 7 & 8. For clarity, detailed scope of AMC be read in clause 4.A.3 of Chapter-4	Year s 5
	Total Cost of Schedule – B'	
	Total Value of Schedule - 'A' and Schedule - 'B'	
	Total Value of SOR in Words:	

SOR HEAD II: SUPPORT ENGINNERS, EMS SYSTEM AND TRAININGS FOR SURVEILLANCE NETWORK AT STATIONS

SN.	Description of Item	b. Unit	Qty.	Unit Rate in Fig (in Rs.)	Total Cost in Fig. (in Rs.)	Unit Rate in words (in Rs.)	Total Cost in words (in Rs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Manpower Support during warranty period			a khakira keja keja keja keja keja keja keja kej	pripodenom intendependinistropo.		
<u>(a)</u>	L1 support engineer in Field (@ defined per annum rate of Rs.3,00000/-)	Man- Years	206*				
(b)	L2 support engineer in RailTel Datacenter (@ defined per annum rate of Rs. 6,00000/-)	Man- Years	12*				
2.	Training of personnel over and above the on-site training, during the installation, maintenance and supervision period as detailed in the tender document.	Man- weeks	1030			. Common	
والمنافعة	Total Cost of Schedule						

Total Value of SOR Head-I and SOR Head-II	
Total Value of SOR in Words:	

PACKAGE III: EASTERN

SOR HEAD I: IP BASED VIDEO SURVEILLANCE WORK AT STATIONS

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SN.	Description of Item	. Unit	Qty.	Unit Rate in Fig (in Rs.)	Total Cost in Fig. (in Rs.)	Unit Rate in words (in Rs.)	Total Cost in words (in Rs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SCHEDULE 'A'						
1.	Supply, Installation, Testing, Commissioning and Integration of IP cameras at stations					**************************************	
(a)	Full HD Fixed dome type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No.	1305				
(b)	Full HD Box/Bullet type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No	22157		:		
(c)	Full HD P/T/Z type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	E#SHEWCHER ·	2933				
(d)	4K UHD Box/Bullet type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No.	1716				
2.	Supply, Installation, Testing and Commissioning of IT infrastructure, applications and associated items at RPF/GRP Thana/Post		proceduration and continues	unasprodukty	e gal		

/432	dated 29-03-18						
	VSS Server Hardware etc. and all						
	accessories required for installation						
	purposes for Video recording, Vid-	7)	Him ton				
	eo Analytic and Facial Recognition	*10			ļ		
(a)	system as defined in clause 8.2, 8.3	Set	149	11111			
(4)	and 8.18 of chapter 8. Detailed Bill	501	177		٠.		
ļ	_ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
	of Material (BoM) shall be pre-						
1	pared and submitted along with the						
ļ	Bid as per SOR Note-VII.						
	PC Workstation as defined in						
	clause 8.6 of chapter 8 for viewing,						
	monitoring and system manage-						
	ment including 24" monitor, all re-		150				
(b)	quired licensed software, spike	No.	152				
	buster 500VA UPS with backup for						
	30 minutes power failure without						
1,113	interruption, and all other required			1			
100	accessories						
	Digital Key-Board (joystick) and						
1137	all accessories compatible with						
(c)	P/T/Z cameras as defined in clause	No.	152				
:	L				:		
	8.5 of chapter 8.					17:11:11:11:11	
1	Large Format Display Monitor (40"						
(d)	or Higher) as defined in clause 8.7	No.	304				
	of chapter 8.				44	11.11	
	Storage System at RPF/GRP				:		
	Thana/Post sites for recording of		1				ļ
	cameras from cluster of stations for	j ·	7.	a.			
	30 days as defined in clause 8.3, 8.4		Quantities				1
1-1	of chapter 8 and all accessories re-	an-	to be speci-				
(e)	quired for installation purposes.	ТВ	fied by the	,,,,,,			
	Detailed Bill of Material (BoM)		bidder				
	shall be prepared and submitted						
	along with the Bid as per SOR		Killian				
1	Note-VII.						
	Type-III switches as defined in		Total				
	clause 8.10 of chapter 8 and all ac-		Input.				
(f)	cessories required for their installa-	No.	298				
	tion		all all				
	property temporal temporal (CACION						
	Next Generation Firewall (NGFW)		, and a				
	as defined in clause 8.14 of chapter				production and the same of		
(g)	8 along with management software	No.					
	& hardware and all accessories re-						
	quired for their installation						
	UPS 2x10KVA connected in paral-		// Committee				
	lel redundant mode in separate						
(h)	chassis as per specifications defined	Set	149				
' '	in clause 8.16 of chapter 8 and all						
	accessories required for installation						
<u> </u>	1			<u> </u>	<u> </u>	<u> </u>	1

, , , <u>, , , , , , , , , , , , , , , , </u>	uateu 23-03-16						
	19" 42U racks as per specification						
	defined in clause 8.22 of chapter 8						
(i)	and all accessories like electrical	No.	149				
17	fitting (power strip, MCB etc.),	110	17/	٠.			
	Fantray, Patch Panel etc., required	***					
	for installation of the equipment				: '		
	Supply and fixing of furniture for						
	each Workstation quoted under						
/:\	item no. A.2(b) i.e. one table (Mod-	No	1,2,			rii.	
(j)	el: Stylo Make: Godrej or superior),	No.	104			m.	
	and two chairs (Model: PCH-						
	7046A Make: Godrej or superior).						
	2 nos. of 2 Ton Split AC (5 star or	Set					
(da)	better) with external controller unit						
(k)	for AC change over for installation		149				
	at RPF/GRP Thana/Post						
	Supply, Installation, Testing and				:		
3.	Commissioning of IT infrastruc-						
٦,	ture, applications and associated						
1104 1114 1114	items at RailTel datacenter(s)						
1	VSS Server Hardware for Video						
	Management and Facial Recogni-				,		
	tion database system as defined in						
	clause 8.2, 8.3 of chapter 8 and all	·	1			: : : : : : : : : : : : : : : : : : : :	
(a)	accessories required for installation		1			: * *	
	purposes. Detailed Bill of Material	Set		,		1	
	(BoM) shall be prepared and sub-		" 1				
	mitted along with the Bid as per			n'			
	SOR Note-VII.						
	Core switch as defined in clause	li.		The Line			
	8.12 of chapter 8 along with all op-						
(b)	tics (SFP/SFP+ as per solution re-	No.	NIL	NIL	NIL	NIL	NIL
` ` .	quirement) and all accessories re-						
	quired for their installation						
	Type-III switches as Top of the						
	Rack switch in (1+1) as defined in						
	clause 8.10 of chapter 8 and all ac-		Quantities				
(3)	cessories required for their installa-		to be speci-	and William or			
(c)	tion. Detailed Bill of Material	No.	fied by the				
	(BoM) shall be prepared and sub-		bidder				
	mitted along with the Bid as per			A STATE OF THE STA			
	SOR Note-VII.			1.000			
	Next Generation Firewall (NGFW)						
	at RailTel Datacenters as defined in						
45	clause 8.14 of chapter 8 along with						> 777
(d)	management software & hardware	No.	NIL	NIL	NIL	NIL	NIL
	and all accessories required for						
	their installation						
	Harmon Harmonian Marketing 22 22 16	THE PARTY OF THE P	ASSESSMENT OF STATES	Parameter Services	COME TEMPOREMENT	Light Colonial Coloni	

7432	dated 29-03-18					
(e)	Storage System for recording of alerts, alarms of cameras of analytics and other applications requirement as defined in clause 8.3 and 8.4 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	The state of the s	240			
(f)	EMS in RailTel Datacenters (Gurugram and Secunderabad) as per specification defined in clause 8.23 of chapter 8					
i.	Hardware	Set	2			
ii.	Software	Set	2			
4.	Supply, Installation, Testing and commissioning of software (per camera basis) for Video Management, Video recording, Video Analytic and Facial Recognition system (FRS licenses equal to Nos. of 4K UHD cameras) for the server hardware quoted in Item no. A.2(a) as defined in clause 8.3 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII. Supply, Installation, Testing and commissioning of Graphical User Interface based Client Software (per workstation basis) for work-		152			
	station as quoted in Item no. A.2(b) along with as defined in clause 8.3 of chapter 8.	Titel Thidevalvious pages (1)		trajelišienė (Palikliniai).		
6.	Supply, Installation, Testing and Commissioning of IT infrastructure and associated items at Railway Stations					. , , , , , , , , , , , , , , , , , , ,
(a)	Supply of Video Recording & Processing Unit for non RPF stations as per specification defined in clause 8.18 of chapter 8	STREET,				
i.	For Category C (Sub-urban) plat- forms	No	Quantities to be speci- fied by the bidder		20 T	

7724	dated 29-03-18			ı		3	
		·	Quantities to be speci-				
ii.	For Category C (others), D and E	No.	fied by the				
	stations	140	bidder bidder				
(b)	Type-I switches as defined in clause 8.8 of chapter 8, optics (SFP-BX as defined in clause 8.13 of chapter-8 and quantity as per solution requirement & network design defined in clause 3.B of Chapter-3) and all accessories required for their installation. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	No.	5340				
(c)	Type-II switches as defined in clause 8.9 of chapter 8, optics (SFP-BX (10KM) Single Fiber, SFP+ (10KM) and SFP+ (40 KM) Single Fiber as defined in clause 8.13 of chapter-8 and quantity as per solution requirement) and all accessories required for their installation	No.	2288				
(d)	Type-IV switches as defined in clause 8.11 of chapter 8, optics (SFP+ (10KM), SFP+ (40 KM) Single Fiber, SFP+ (350 mtr.) and SFP 1G (10KM) as defined in clause 8.13 of chapter-8 and quantity as per solution requirement) and all accessories required for their installation		298	i i i i i i i i i i i i i i i i i i i	. :		
(e)	24 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8, 192? 9U racks as per specification defined in clause 8.21 of chapter 8 and all accessories like power strip, MCB, Fantray, Patch Panel, patch chord, pigtails etc. required for their installation	No.	2288				

12 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8 and all accessories like power strip, MCB Fantray, Patch Panel, patchichord, pigtails etc. required for their installation	/432	dated 29-03-18					
lation Online UPS system, single phase of rating 1KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation Online UPS system, single phase of rating 2KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation MFCE Earth complete with all accessories required for installation accessories. (Less than 1 Ohm) as per technical specifications defined in chapter 5 of Section-II (Nos indicates the site of installation) ACDB for AC distribution Box with Lock and key arrangements and ISI mark MCBs of various ratings as per site requirements for installation at sites Panic Switch (IK10 and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2Amps 24 VDC, Stainless Steel 2Amps 24 VDC, Stainless Steel Face Plate with GI function Box of suitable size and flägher cum strobes of min. 100dB including all accessories required for installation platforms at stations Supply, Blowing/Pulling/Iaying of cables, PVC pipe and Gf pipe for work at Stations (with accessories on wall or structure etc. along with all accessories required for installation, laying, fixing, clamping and cutting as per specification as defined in chapter 8)	(f)	per specifications defined in clause 8.20 of chapter 8, 19" 9U racks as per specification defined in clause 8.21 of chapter 8 and all accessories like power strip, MCB,	No.	5340			
rating IKVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation Online UPS system, single phase of rating 2KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessories required for installation MFCE Earth complete with all accessories required for installation MFCE Earth complete with all accessories required for installation ACDB for AC distribution Box with Lock and key arrangements (j) and ISI mark MCBs of various ratings as per site requirements for installation at sites Panic Switch (IK10 and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2Amps 24 VDC, Stainless Steel (k) Face Plate with G1 function Box of suitable size and flasher cum strobe of min. 100dB including all accessories required for installation on platforms at stations Supply, Blowing/Pulling/laxying of cables, PVC pipe and Cal pipe for work at Stations (with accessories on wall or structure etc. along with all accessories required for installation, laying fixing, clamping and cutting as per specification as defined in chapter 8).		lation					
rating 2KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause. 8.16 of chapter 8 and all accessories required for installation MFCE Earth complete with all accessories. (Less than 1 Ohm) as per technical specifications defined in chapter 5 of Section-II (Nos. indicates the site of installation) ACDB for AC distribution Box with Lock and key arrangements and ISI mark MCBs of various ratings as per site requirements for installation at sites Panic Switch (IK10 and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2Amps 24 VDC, Stainless Steel (k) Face Plate with Gl Uniction Box of suitable size and flasher cum strobe of min. 100dB including all accessories required for installation on platforms at stations Supply, Blowing/Pulling/Laying of cables, PVC pipe and Gl pipe for work at Stations (with accessories on wall or structure etc. along with all accessories required for installation, laying, fixing, clamping and cutting as per specification as defined in chapter 8)	(g)	rating 1KVA UPS along with Battery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accessor	No.	3664			
cessories. (Less than 1 Ohm) as per technical specifications defined in chapter 5 of Section-II (Nos. indicates the site of installation) ACDB for AC distribution Box with Lock and key arrangements and ISI mark MCBs of various ratings as per site requirements for installation at sites Panic Switch (IK10 and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2Amps 24 VDC, Stainless Steel (k) Face Plate with GI Junction Box of suitable size and flasher cum strobe of min. 100dB including all accessories required for installation on platforms at stations Supply, Blowing/Pulling/Jaying of cables, PVC pipe and Ci pipe for work at Stations (with accessories on wall or structure etc. along with all accessories required for installation, laying, fixing, clamping and cutting as per specification as defined in chapter 8)	(h)	rating 2KVA UPS along with Bat- tery suitable for 1hr back-up as per specifications defined in clause 8.16 of chapter 8 and all accesso-	No.	334			
with Lock and key arrangements and ISI mark MCBs of various ratings as per site requirements for installation at sites Panic Switch (IK10 and IP66 rated) with Mushroom Cap Push-Button in Red Color, DPDT contacts 2Amps 24 VDC, Stainless Steel Face Plate with GI Junction Box of suitable size and flasher cum strobe of min. 100dB including all accessories required for installation on platforms at stations Supply, Blowing/Pulling/laying of cables, PVC pipe and GI pipe for work at Stations (with accessories on wall or structure etc. along with all accessories required for installation, laying, fixing, clamping and cutting as per specification as defined in chapter 8)	(i)	cessories. (Less than 1 Ohm) as per technical specifications defined in chapter 5 of Section-II (Nos. indi- cates the site of installation)	No.	928			,
with Mushroom Cap Push-Button in Red Color, DPDT contacts 2Amps 24 VDC, Stainless Steel Face Plate with GI Junction Box of suitable size and flasher cum strobe of min. 100dB including all accessories required for installation on platforms at stations Supply, Blowing/Pulling/Jaying of cables, PVC pipe and GI pipe for work at Stations (with accessories on wall or structure etc. along with all accessories required for installa- tion, laying, fixing, clamping and cutting as per specification as de- fined in chapter 8)	(j)	with Lock and key arrangements and ISI mark MCBs of various ratings as per site requirements for installation at sites	No.	1855		:	
Supply, Blowing/Pulling/laying of cables, PVC pipe and GI pipe for work at Stations (with accessories on wall or structure etc. along with all accessories required for installation, laying, fixing, clamping and cutting as per specification as defined in chapter 8)	(k)	with Mushroom Cap Push-Button in Red Color, DPDT contacts 2Amps 24 VDC, Stainless Steel Face Plate with GI Junction Box of suitable size and flasher cum strobe of min. 100dB including all accessories required for installation on	No.	2690			
The state of the s	7.	Supply, Blowing/Pulling/laying of cables, PVC pipe and GI pipe for work at Stations (with accessories on wall or structure etc. along with all accessories required for installation, laying, fixing, clamping and cutting as per specification as de-			Table 1		
	a.	म्बर्भाव भ्यापन स्थापन स्थापन स्थापन	Mtr	702775		1	

	12 Core metal strengthened outdoor	<u> </u>					
b.	unarmored Optic Fiber Cable (ITU-	Mtr	2424630				
D.	T G.652.D)	IVILI	2424030				
	PVC insulated 3 core 4 Sq. mm						****
			7.	i ::			
	(1.1 KV grade) outdoor strength-	. '	100.045		:	1	
С.	ened Copper Cable for UPS supply	mtr	1326945				
	distribution (as per BIS/ISI stand-						
	ards)						
						E E C :	
d	32mm PVC conduit pipe (ISI mark)	Mtr	4343050				
	AND STATE OF THE S						
	20 DVG G 111						
e	32mm PVC flexible pipe,	Mtr	158500				
	Sallian Market			***************************************			
f	40mm dia UDDE nina	Mtm	02750				
1 1	40mm dia. HDPE pipe	Mtr	92750				
g	GI pipe	Mtr	18550				
:::::	2 1 2 2 1 2					111111111111111111111111111111111111111	
8.	Supply of Media Convertor Pair as	No.	75				
	defined in clause 8.15 of chapter 8.						
	Spares @ 8% of supply against						
9.	item A.1 (a) to A.1(d), A.2 (f), A.6	Lot.					
٠.	(b) to A.6 (d) above as defined in	1.01.					
	clause 3.D.8.1 in chapter 3.						
	Supply and installation of brack-						
10.	et/fixture/Angle for fixing of cam-	No.	730 ,		. :		
	era at stations						
11	Engineering works at RPF/GRP	N.T.	140	la.			•
11.	Thana/Post @ Rs. 50,000/-	No.	149		1		
	Total Cost of Schedule – 'A'			BLS .			
	Total Cost of Schedule - A						
	**:::	TRESTERNATES				Incre	nental %
SN	Description of Item	Unit	Qty.	£	iental %		n Words.)
~~`	at			Cost (I	n Fig.)		** *********************************
(1)	THE STATE OF THE S	(2)		(5)	1 (4)	/ //	(0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Line State of the Line of the	SCHEDULE='B'	lessa de la					



1	Incremental AMC charges after warranty period as percentage of overall cost (excluding taxes and duties) of Supply portion of Schedule – 'A' over and above 3.5%. Only incremental % cost in addition to 3.5 % mentioned in clause 4.A.3 of Chapter-4 required to fulfill Long Term Maintenance support clause. (E.g. if the annual AMC cost is proposed to be 4% the quoted % should be (+) 0.5 % per annum under column 5 & 6. For five years it should separately be shown as (+) 2.5 % under column 7 & 8. For clarity, detailed scope of AMC be read in clause 4 A.3 of Chapter-4	Year	5		
	Total Cost of Schedule – 'B'			885 YASO 2550 X 548 X 588	
	Total Value of Schedule - 'A' and Schedule - 'B'				
:	Total Value of SOR in Words:				

SOR HEAD II: SUPPORT ENGINNERS, EMS SYSTEM AND TRAININGS FOR SURVEILLANCE NETWORK AT STATIONS

SN.	Description of Item	Unit	Qty.	Unit Rate in Fig (in Rs.)	Total Cost in Fig. (in Rs.)	Unit Rate in words (in Rs.)	Total Cost in words (in Rs)
(1)	<u></u> (2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Manpower Support during warranty period						
<u>(a)</u>	L1 support engineer in Field (@ defined per annum rate of Rs.3,00000/-)	Man- Years	298*				
(b)	L2 support engineer in RailTel Datacenter (@ defined per annum rate of Rs. 6,00000/-)	Man- Years	12*				·
2.	Training of personnel over and above the on-site training, during the installation, maintenance and supervision period as detailed in the tender document.	Man- weeks	1490				
	Total Cost of Schedule						

Total Value of SOR Head-I and SOR Head-II	
Total Value of SOR in Words:	

PACKAGE IV: SOUTHERN

SOR HEAD I: IP BASED VIDEO SURVEILLANCE WORK AT STATIONS

	ENVISE CONTRACTOR OF THE CONTR						
SN.	Description of Item	Unit	Qsy.	Unit Rate in Fig (in Rs.)	Total Cost in Fig. (in Rs.)	Unit Rate in words (in Rs.)	Total Cost in words (in Rs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	SCHEDULE 'A'						
1.	Supply, Installation, Testing, Commissioning and Integration of IP cameras at stations						
(a)	Full HD Fixed dome type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No.	1010				
(b)	Full HD Box/Bullet type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No	16567				
(c)	Full HD P/T/Z type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No	2144				
(d)	4K UHD Box/Bullet type IP colour camera along with housing and mount and all accessories required for installation purposes as defined in clause 8.1 of chapter 8.	No.	1126				
2.	Supply, Installation, Testing and Commissioning of IT infrastructure, applications and associated items at RPF/GRP Thana/Post						

VSS Server Hardware etc. and all	
accessories required for installation	
purposes for Video recording, Vid-	
eo Analytic and Facial Recognition	
(a) system as defined in clause 8.2, 8.3 Set 149	
and 8.18 of chapter 8. Detailed Bill	
of Material (BoM) shall be pre-	
pared and submitted along with the	
Bid as per SOR Note-VII.	
PC Workstation as defined in	
clause 8.6 of chapter 8 for viewing,	·
monitoring and system manage-	
ment including 24" monitor, all re-	
(b) quired licensed software, spike No.	
buster 500VA UPS with backup for	
30 minutes power failure without	
interruption, and all other required	
accessories	
Digital Key-Board (joystick) and	
(c) all accessories compatible with No. 152	
F/1/Z cameras as defined in clause	
8.5 of chapter 8.	
Large Format Display Monitor (40"	
(d) or Higher) as defined in clause 8.7 No. 1 304	
of chapter 8.	· ·
Storage System at RPF/GRP	
Thana/Post for recording of camer-	
as from cluster of stations for 30	
days as defined in clause 8.3, 8.4 of	
(e) chapter 8 and all accessories re- TB to be speci-	
(e) quired for installation purposes. TB fied by the	
Detailed Bill of Material (BoM) bidder bidder	
shall be prepared and submitted	
along with the Bid as per SOR	
Note-VII.	
Type-III switches as defined in	
clause 8 10 of chanter 9 and all acc	
(f) Clause 8.10 of chapter 8 and all accessories required for their installa-	
tion	
Next Generation Firewall (NGFW)	
as defined in clause 8.14 of chapter	
(g) 8 along with management software No. 0	
& hardware and all accessories re-	
UPS 2x10KVA connected in paral-	
lel redundant mode in separate	1
(h) chassis as per specifications defined Set 149	1
in clause 8.16 of chapter 8 and all accessories required for installation	

/432	dated 29-03-18			:		
(i)	19" 42U racks as per specification defined in clause 8.22 of chapter 8 and all accessories like electrical fitting (power strip, MCB etc.), Fantray, Patch Panel etc. required for installation of the equipment	No.	149		11 1 -	
(j)	Supply and fixing of furniture for each Workstation quoted under item no. A.2(b) i.e. one table (Model: Stylo Make: Godrej or superior), and two chairs (Model: PCH-7046A Make: Godrej or superior).	No.	152			
(k)	2 nos. of 2 Ton Split AC (5 star or better) with external controller unit for AC change over for installation at RPF/GRP Thana/Post	Set	149			
3.	Supply, Installation, Testing and Commissioning of IT infrastructure, applications and associated items at RailTel datacenters (Gurugram and Secunderabad)				·	
(a)	VSS Server Hardware for Video Management and Facial Recognition system as defined in clause 8.2, 8.3 of chapter 8 and all accessories required for installation purposes. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	Set	1			
(b)	Core switch as defined in clause 8.12 of chapter 8 along with all optics (SFP/SFP+ as per solution requirement) and all accessories required for their installation	No.	2			
(c)	Type-III switches as Top of the Rack switch (1+1) as defined in clause 8.10 of chapter 8 and all accessories required for their installation. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	No.	Quantities to be speci- fied by the bidder			
(d)	Next Generation Firewall (NGFW) at RailTel Datacenters as defined in clause 8.14 of chapter 8 along with management software & hardware and all accessories required for their installation	No.	2			

7 132	dated 29-03-18					
(e)	Storage System for recording of alerts, alarms of cameras of analytics and other applications requirement as defined in clause 8.3 and 8.4 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	ТВ	240			
(f)	EMS in RailTel Datacenters as per specification defined in clause 8.23 of chapter 8					
i.	Hardware	Set	2			
ii.	Software	Set	2			
(g)	Nos. of racks proposed to be commissioned in the Data Centre of RailTel under the proposed solution by the bidder. (Please refer to Note-XVII with corrigendum)	Nos.		-	800000x8 Y= 6400000/	
4.	Supply, Installation, Testing and commissioning of software (per camera basis) for Video Management, Video recording, Video Analytic and Facial Recognition system (FRS licenses equal to Nos. of 4K UHD cameras) for the server hardware quoted in Item no. A.2(a) as defined in clause 8.3 of chapter 8. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	Set	149			
5.	Supply, Installation, Testing and commissioning of Graphical User Interface based Client Software (per workstation basis) for workstation as quoted in Item no. A.2(b) along with as defined in clause 8.3 of chapter 8.		152			
6.	Supply, Installation, Testing and Commissioning of IT infrastructure and associated items at Railway Stations				PROTECTION 1	
(a)	Supply of Video Recording & Processing Unit for non RPF stations as per specification defined in clause 8.18 of chapter 8		per el comb			

/432	dated 29-03-18					
i.	For Category C (Sub-urban) plat-	No.	Quantities to be speci- fied by the bidder			
ii.	For Category C (others), D and E stations	No.	Quantities to be speci- fied by the bidder			ō
iii.	For Category F stations	No.	Deleted			
(b)	Type-I switches as defined in clause 8.8 of chapter 8, optics (SFP-BX as defined in clause 8.13 of chapter-8 and quantity as per solution requirement & network design defined in clause 3.B of Chapter-3) and all accessories required for their installation. Detailed Bill of Material (BoM) shall be prepared and submitted along with the Bid as per SOR Note-VII.	No.	4039			
(c)	Type-II switches as defined in clause 8.9 of chapter 8, optics (SFP-BX (10KM) Single Fiber, SFP+ (10KM) and SFP+ (40 KM) Single Fiber as defined in clause 8.13 of chapter-8 and quantity as per solution requirement) and all accessories required for their installation	No.	1617	1.1		
(d)	Type-IV switches as defined in clause 8.11 of chapter 8, optics (SFP+ (10KM), SFP+ (40 KM) Single Fiber, SFP+ (350 mtr.) and SFP 1G (10KM) as defined in clause 8.13 of chapter-8 and quantity as per solution requirement) and all accessories required for their installation	¥1392958330 ·	298	·	200	
(e)	24 Fibre FMS (SC-APC Type) as per specifications defined in clause 8.20 of chapter 8, 19" 9U racks as per specification defined in clause 8.21 of chapter 8 and all accessories like power strip, MCB, Fan tray, Patch Panel, patch chord, pigtails etc. required for their installation	No.	1617			

/43	2 dated 29-03-18						
	12 Fibre FMS (SC-APC Type) as		·				
	per specifications defined in clause			. 1			
	8.20 of chapter 8, 19" 9U racks as	190	ik ligaria				
	per specification defined in clause						
(f)	8.21 of chapter 8 and all accesso-	No.	4039				
"	ries like power strip, MCB, Fan	1101					
	tray, Patch Panel, patch chord, pig-						
	tails etc. required for their installa-						
	tion		i i				
	1000					ida Igari	
	Online UPS system, single phase of						
	rating 1KVA UPS along with Bat-						
(g)	tery suitable for 1hr back-up as per	No.	2631				
```	specifications defined in clause						
	8.16 of chapter 8 and all accesso-			779			
<u> </u>	ries required for installation						
	Online UPS system, single phase of						
	rating 2KVA UPS along with Bat-						
(h)	tery suitable for 1hr back-up as per	No.	379				
\'	specifications defined in clause	110.					
	8.16 of chapter 8 and all accesso-						
	ries required for installation						•
	MFCE Earth complete with all ac-						
	cessories. (less than 1 Ohm) as per						
(i)	technical specifications defined in	No.	67.6				
	chapter 5 of Section-II (Nos. indi-						
	cates the site of installation)						
	ACDB for AC distribution Box				, i ii		
	with Lock and key arrangements			2			
(j)	and ISI mark MCBs of various rat-	No.	1352				
	ings as per site requirements for				:		
	installation at sites						
	Panic Switch (IK10 and IP66 rated)	7					
	with Mushroom Cap Push-Button						
	in Red Color, DPDT contacts	1	l la				
	2Amps 24 VDC, Stainless Steel	1					
(k)		No.	2631				
	suitable size and flasher cum strobe						
	of min. 100dB including all acces-		hr: speanitation	and of the second			-
	sories required for installation on	li d					
L	platforms at stations				r*		
	Supply, Blowing/Pulling/laying of		Haraman and All Maria			<del></del>	
	cables, PVC pipe and GI pipe for		The state of the s		F)		
	work at Stations (with accessories				1		
_	on wall or structure etc. along with						
7.	all accessories required for installa-						
	tion, laying, fixing, clamping and						
	cutting as per specification as de-						
1	fined in chapter 8)						
	souther control address and control to	A L	FO 1 1 7 7	Annual Control of the	18.1. ANNESTREES (1920)	SHEMING)	
a.	STP CAT-6	Mtr	521175				

(1)	(2) SCHEDULE - 'B'	(3)	(4)	(5)	(6)	(7)	(8)	
SN	Description of Item	Unit	Qty.	Increm Cost (I	ental % n Fig.)	Incremental % Cost (In Words.)		
	Total Cost of Schedule - 'A'							
11.	Engineering works at RPF/GRP Thana/Post @ Rs. 50,000/-	No.	149	T. Jan				
10.	Supply and installation of brack- et/fixture/Angle for fixing of cam- era at stations	No.	555	200 miles	.: .:'			
9.	Spares @ 8% of supply against item A.1 (a) to A.1(d), A.2 (f), A.6 (b) to A.6 (d) above as defined in clause 3.D.8.1 in chapter 3.	Lot.						
8.	Supply of Media Convertor Pair as defined in clause 8.15 of chapter 8.	No.	7,5					
g	GI pipe	Mtr	13520					
f	40mm dia. HDPE pipe	Mtr	67600	'				
е	32mm PVC flexible pipe,	Mtr	111450					
d	32mm PVC conduit pipe (ISI mark)	Mtr	3103018					
c.	PVC insulated 3 core 4 Sq. mm (1.1 KV grade) outdoor strengthened Copper Cable for UPS supply distribution (as per BIS/ISI standards)	mtr	941558					
b.	unarmored Optic Fiber Cable (ITU- T G.652.D)	Mtr	1721405		-			

	Incremental AMC charges after					
	warranty period as percentage of					
	overall cost (excluding taxes and	-		1		
	duties) of Supply portion of	***				
	Schedule - 'A' over and above	,				
	3.5%. Only incremental % cost in				<u>.</u>	
ľ	addition to 3.5 % mentioned in					
	clause 4.A.3 of Chapter-4 required					
1	to fulfill Long Term Maintenance	Year				
*	support clause. (E.g. if the annual	s				
	AMC cost is proposed to be 4% the					
	quoted % should be (+) 0.5 % per			AFIL		
	annum under column 5 & 6. For					
:	five years it should separately be					
	shown as (+) 2.5 % under column 7					
	& 8. For clarity, detailed scope of				1	·
	AMC be read in clause 4.A.3 of				:	
	Chapter-4					
74.04.04.00021.02.00	Total Cost of Schedule – B'					
	Total Value of Schedule - 'A'					
	and Schedule – 'B'					
	Total Value of SOR in Words:		٠			

## SOR HEAD II: SUPPORT ENGINERS, EMS SYSTEM AND TRAININGS FOR SURVEILLANCE NETWORK AT STATIONS

SN.	Description of Item	Unit	Qty.	Unit Rate in Fig (in Rs.)	Total Cost in Fig. (in Rs.)	Unit Rate in words (in Rs.)	Total Cost in words (in Rs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Manpower Support during warranty period			188-1			
<u>(a)</u>	L1 support engineer in Field (@ defined per annum rate of Rs.3,00000/-)	Man- Years	298*		The state of the s		
(b)	L2 support engineer in RailTell Datacenter (@ defined per annum rate of Rs. 6300000/-)	Man- Years	12*				
2.	Training of personnel over and above the on-site training, during the installation, maintenance and supervision period as detailed in the tender document.	Man- weeks	1490				
	Total Cost of Schedule						

Total Value of SOR Head-I and SOR Head-II

Total Value of SOR in Words:

	::	RIGHT.	
Note			
	a) Before quoting please see rele	evant para of Chapter 8 Tech	inical Specifications.
<b>I</b>	(with break-up as per Performance quired to be delivered within cided by the respective Region of the same should be inclustabled need to be shipped to Installation is not separately  d) The Schedule of Requirement with an additional 10% capacity eras mentioned for RPF/GRP The be calculated considering RAID of keeping the flagged/marked investigation purpose and also to In case more storage capacity.	ma attached as Annexure- As the delivery period as indicated as increased as indicated as decided by RGM mentioned, installation shall has been divided into two particles and above the capacity and post from day one (refer 5/6 configuration. The additionages/video footage as a ecater the requirements of precity in addition to the above	nation inclusive of all duties, taxes, insurance and freight etc.  B and C of this Chapter). The materials as per SOR are recated in Bid Data Sheet (BDS, Chapter 5) to the sites as de- lipment to site for the Installation & Commissioning. Charges ad-I and II of packages. Materials not installed / not to be in- [YExecutive Director of the Region. SOR items against which be considered within the scope of supply itself.  arts, viz. SOR Head-I and SOR Head-II of packages.  em supplied at the RPF/GRP Thana/Post should be supplied required for 30 days recording computed on the basis of camclause 8.3 and 8.4 of Chapter-8). The storage capacity should ional capacity is required to meet the compliance requirement vidence required by the RPF/GRP/Appropriate authority for ovision of any new cameras on the station.  mentioned is required in the storage system then the cost to- Id be calculated on pro-rata basis.
II	3.5% per annum, he should give	suitable discount in equipme is a higher base rate for AM	es, if however the bidder feels that his AMC Cost is less than ent/supply item pricing. For AMC he will be paid @ 3.5% per IC he will be paid at his quoted rate per annum and five year on.
III	the rates as defined, then he shaccording to the defined rates of be paid at his quoted rate and the The bidder is supposed to quote Supervision period, as during the system free of cost for a period section 4.A.2.5)  * Quantities mentioned are the bestrength is required to maintain would also be required to deploy	build adjust the differential and the lowever, if the bidder of differential shall be taken for the manpower requires period the contractor short twelve months from the date minimum requirement of the installed network, then the same mumber of many the same mumber of many	Is that the Manpower support can be given at rates lower than amount in the equipment/supply pricing, and he will be paid quotes a higher base rate than the rates as defined then he will be revaluation.  The responsible for proper maintenance supervision of the late of provisional acceptance (for more details please refer to fithe purchaser, however if bidder feels that larger manpower bidder is free to revisit the quantities mentioned. The bidder lower resources during the 12 months period of maintenance ackages of SOR for the commercial bid.
IV			tations, therefore, the existing available infrastructure may be and such items used may not be considered as a part of Supply

Bidder should submit the soft copy (Word/Excel/PDFs format) of offer in DVDs/USB's, Bill of Material (BOM) must be in PDF as well as Excel format (except price bid). Bidder is allowed to quote only for a single Make/Model of the quoted items along with the offer. The above stipulation of single OEM Make/Model applies to items viz. different types of cameras, servers, Video Recording & Processing Unit, workstation, storage, large format display monitors, VMS Softwares, VA, FRS, switches (Type I, v II, III & IV may be of different OEM make/model but there will be only one OEM make/model against one type of switches), Firewall and EMS. DIFFERENT OEM(S) ACROSS PACKAGES IS NOT PERMITTED. OFFERS WITHOUT PARTICULARS OF MAKE/MODEL OR MULTIPLE OEMS OF SAME ITEM SHALL BE LIABLE TO SUMMARILY REJECTED. Bidder must validate all the quantities quoted in their technical solution proposed supported by calculations, datasheets and design documents duly vetted by respective OEM(s) as same would be required for the technical evaluation of the offer. Bidder would be responsible for ensuring the complete system is operational and meeting the requirements as mentioned in the RFP. However, if at any stage before the issuance of FAC for the system installed, it is found that the system per-VI formance is not compliant with the functional requirements and specifications given in the RFP document, the bidder shall be liable/obliged to supply additional hardware/systems at no additional cost to the purchaser, required to meet the functional requirements and specifications mentioned in the RFP document at no additional cost to the purchaser. Purchaser's engineer decision in this context will be final. The Bill of Material will be prepared for Schedule of Requirement against each item of SOR. This Bill of Material will be called "Bill of Material for Schedule of Requirement" and will comprised of duly filled rates of each item. And will be prepared according to Note (I) to (IV) above. The Un-priced copy of the same BOM should be submitted with the technical/credential Bid for evaluation. The Bid (credential without the BOM will be summarily rejected). The Format of "Bill of Material for Schedule of Requirement" is as below: SOR B1(b) SOR B1(c SOR B1(a) **B**18 **SOR A15** SOR A SOR A ⋖ SOR SOR ] Unit rate Unit VII 1 (to be provided by bidder) 2 (to be provided by bidder) VIII The offered solution for video management system, FRS, video analytic system softwares, server and storage hardware sizing should be duly vetted and supported with certifications issued by OEM. IX Deleted X Deleted The bidder should submit the Type approval certificate from DOT (TEC) or Technical Specification Evaluation Certifi-XI cate (TSEC) given by BSNL QA wing for HDPE Duct of 40 mm, as per TEC specification numbered as TEC GR No. GR/TX/CDS-008/03/March 11 with all latest amendments for multiple colors including Orange, Red and Blue color. XII Deleted

7 132	ualeu 29-03-18
XIII	The bidder is required to supply the EMS tool including all hardware and software in a centralized set-up in the RailTel Datacenters (Gurugram and Secunderabad) in DC and DR configuration. The monitoring services at all stations/RPF Chowki/Thana under the region will be provided from the centralized set-up through the clients installed at all the Stations/RPF Chowki/Thana.
XIV	Deleted
XV	Along with the server, bidder is required to propose necessary hardware/software required for remote management of servers like IPMI Port with KYM over LAN or equivalent. Remote management functionalities includes remote OS/Software updation/installation, reboot, shutdown etc.
XVI	Deleted
xvn	Rack Space at Datacenters and associated charges: Rack Space at Datacenters and associated charges: RailTel will provide Racks at Gurugram and Hyderabad datacenter for hosting VSS Cloud infrastructure as defined in the tender. Bidders are requested to optimize the number of racks requirement in the datacenters. Rack requirement is associated with cost and bidder will be charged INR 8 Lacks/annum/rack for 8 years (for evaluation purposes) in the tender for the proposed rack/racks requirements. The Bidder must provide rack space requirements (in terms of Nos. of racks, in new SOR items 3 (g) under the column Qty.) in their technical offer keeping load available on each rack (<=5KVA) for the complete solution (for DC & DR) for all components like Server, Switching, Routers, Storage etc. In case later the actual requirement is found to be more than the quoted Nos. of racks, bidder will be deducted the actual amount on additional racks out of their payment for the entire period of the contract including AMC period). Otherwise this cost shall be borne by RailTel/Railways.  Note:- Space for number of racks will be subjected to the availability of space in datacenters.
XVIII	The supply of items shall be done in phased manner strictly in line with the progress of the work. Successful bidder is required to discuss project progress and planning of supply material in consultation with the purchaser. Dumping of material shall not be permitted and no payment shall be released for such items.
xix	Central Command control center has been provisioned in Northern Region package. Therefore, all successful bidder of other packages are required to share API of their quoted VMS to ensure integration with central command and control center to achieve desired functionality as mentioned in the tender document.  Further, VMS Application should be based on the open software platform and industry standards, a system that can connect and integrate with other VMS Applications using software development kit (SDK) which offers easy to use Application Programming Interface (API) and support most commonly used programming languages. VMS application should have open standard architecture (no proprietary database) and interoperability with other VMS applications to meet the desired functional requirement of the project.
XX	Deleted
XXI	The tentative list of stations (subject to change marginally) is being uploaded so that the vendors may assess the actual requirements of various items likely to be proposed.
XXII	SFP+ (10Km/40Km) for the switches proposed at RailTel MPLS backbone for connecting adjoining stations through existing RailTel fibers and Type-IV switches at Cat-Al. A.& B stations & Type-II switches at Category C, D & E stations shall be within the scope of bidder.



#### Annexure-A

#### Price Schedule for Indigenous Items

S	Descrip- tion	Total Qty	HSN Code	EX- Factory Price (Basic Unit Price ex- clusive of all levies and charg-	For	kg & ward- ing arges	GST/CGST/ IGST	Frieght & Insurance Charges		Other Charges and Lev- ies	Price Per Unit (all inclusive) for de- livery at destina- tion (4+6+8+10+12+13)	
		7		es)	%	Amt	% Amt	%	Amt			
1	2	3		4	5	6	9 10	11	12	13	14	
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	100										:	



Annexure-B

#### Price Schedule for Imported Equipment

SN	De- script ion	Total Qty		Ex- Facto- ry Price (Basic Unit Price exclu- sive of all levies and charg-	Unit Price per Unit CIF	I	istom Outy	ST/	I/CG IGST		g & and eght	Ini. Insu		Other Charg- es and Levies	Price Per Unit (all inclu- sive) for delivery at desti- nation (4B+6+8 +10+ 12+14+1 5)
		11111111111111111111111111111111111111		es)		%	Amt	%	Am f	%	t	%	t		
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Annexure-C

### Price Schedule for Service Items

SI	Item Description	Total Qty	SAC Code	Basic Unit Price exclusive of all levies and	/LSSD//LSS		<u></u>	(4+6+7) (all inclusive)
1	2	3		4	5	6	7	8
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16:20:00:00:00:00								
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