














Su-30MKI TTGE - Maintenance, Repair & Indigenisation for Follow on Support under " Make in India"

This is an indicative information on expected requirement of Maintenance, repair and Indigenisation of Su-30MKI TTGE. Interested parties may contact the divisional contact person for further details, possible technical support and available documents.

Project: Su-30MKI	Customer: HAL	Divisional Contact Person		
		Nasik: Shri S K Barve, DGM (Design), Ph No:94206 95047, Shri B K Malik, CM (Design), Ph No:99707 19988 ; Hyderabad: Shri Ramana Rao, CM(A&T), Ph No:99899 53404 ; Korwa: Shri R K Gupta, DGM (Su-30 Plg), Ph No:94514 07842, Shri Ajay Kumar, Mgr (Su-30), Ph No:94159 65118 ; Koraput: Shri Babrubahan Sahu, Sr Manager (Eqpt Indg Proj), Ph No: 94373 72708:		

Items proposed for Maintenance/ Repair only












Sl No	Division	Type of TTGE (Tools, Tester & Ground Equipment)	Part No	Part Description	Category	Aircraft System	Origin Russian / Indian	Proposed for Maintenance / Repair / Indigenisation			Requirement of Calibration / Functional Testing (Yearly) Yes/No	Availability of Documents (Certificate, Operation & Maintenance Manual, Circuit Diagram) Yes/No	Photograph
								Maintenance / Repair expected	Indigenisation Requirement				
									Items expected (Quantity)	Requirement of Indigenisation during 2018 - 2021 Yes/No			
1	Nasik	Ground Equipment	30.9956.0420.000	Shock strut filling device	Mechanical	Under carriage	Russian/Indian	16	No	NIL	Yes	Yes	
2	Nasik	Ground Equipment	30.9957.0100.000	Device for measuring pressure in transducer DAT-400	Mechanical	Airframe	Russian/Indian	15	No	NIL	Yes	Yes	
3	Nasik	Tool	30.9976.0000.000	Pneumatic control panel	Mechanical	Airframe	Russian/Indian	44	No	NIL	Yes	Yes	
4	Nasik	Ground Equipment	Y340.016.0000	Hydraulic plant (GU-3)	Mechanical	Engine	Russian/Indian	19	No	NIL	Yes	Yes	
5	Nasik	Tester	UK-1	Preservation rig for Engine	Mechanical	Engine	Russian/Indian	14	No	NIL	Yes	Yes	
6	Nasik	Tester	7K02.700.002	Auto-Work Station (ARMDK-30)	Electrical	Engine	Russian/Indian	9	No	NIL	Yes	Yes	
7	Koraput	Tester	PNP-132-B1	Test Panel for KRD 99 Field Tester	Electrical	Engine	Russian/Indian	18	No	NIL	Yes	Yes	
8	Nasik	Tester	PKTN-SU-30I (11.9761.1.005.000)	PKTN Test panel	Electrical	Fuel system	Russian/Indian	15	No	NIL	Yes	Yes	
9	Nasik	Tester	PNP-140A	Test Panel for functional check of air intake system with inoperative engines	Electrical	Engine	Russian/Indian	15	No	NIL	Yes	Yes	
10	Koraput	Ground Equipment	R-4833	Resistance Box for T4 parameter calibration	Electrical	Engine	Russian	12	No	NIL	Yes	No	
11	Nasik	Tester	UKAMP-M	Test equipment for Pitot Static Pressure	Electrical	Barometric (Electrical)	Russian	9	No	NIL	Yes	Yes	
12	Nasik	Tester	KPA PVD	Test equipment of Pitot-Static Tube	Electrical	Pitot Static system	Russian	48	No	NIL	Yes	Yes	

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								Maintenance / Repair expected	Indigenisation Requirement				
								Items expected (Quantity)	Requirement of Indigenisation during 2018 - 2021 Yes/No	Tentative Requirement (Quantity)			
13	Nasik	Tester	KPA SDU 10 M 2	Test equipment SDU- 10 MK (FBW Tester)	Electrical	Fly by Wire	Russian/ Indian	22	No	NIL	Yes	Yes	
14	Nasik	Tester	KU-7	Oxygen unit I-Level Test Set (Oxygen Tester- Bench Tester)	Mechanical	Oxygen	Russian	8	No	NIL	Yes	Yes	
15	Korwa	Tester	KBO.8718.000.000	Charging Set for OLS	Electrical	Optical Locator System (OLS)	Russian	9	No	NIL	Yes	Yes	
16	Hyderabad	Tester	KPA AUTS30	AUTS Field Tester	Electrical	Armament-AUTs(30PI)	Russian	10	No	NIL	Yes	Yes	
17	Korwa	Ground Equipment	16 S1-P4-02	Power Indicator to check power output of OLS in Lab.	Electrical	Optical Locator System (OLS)	Russian	6	No	NIL	Yes	No	
18	Korwa	Ground Equipment	UD 43 X 20	Decontamination set for OLS	Mechanical	OLS (OEPrNK)- RIF Complex	Russian	6	No	NIL	Yes	No	
19	Korwa	Tester	KPA-31-P1	I-Level Test Equipment for OLS Part Module	Electrical	OLS (OEPrNK) RIF Complex	Russian	5	No	NIL	Yes	No	
20	Korwa	Tester	KPA-36SHA P1	I-Level Test Equipment for OLS Module	Electrical	OLS (OEPrNK) RIF Complex	Russian	5	No	NIL	Yes	No	
21	Hyderabad	Tester	KP BPKTS-01	I-Level Test Equipment for BPKTS (TVSCU)	Electronics	RIF (OEPrNK) Complex	Russian	8	No	NIL	Yes	Yes	
22	Korwa	Tester	KPA 1 MTTSE	I-Level Test Equipment for 1-MTTSE	Electronics	RIF (OEPrNK) Complex	Russian	8	No	NIL	Yes	Yes	
23	Korwa	Tester	KP-PS-5	I-Level Test Equipment for PS-5 (MFCP)	Electronics	RIF (OEPrNK) Complex	Russian	9	No	NIL	Yes	Yes	

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24	Korwa	Tester	KPA-SURA	I-Level Test Equipment of SURA (HMSD)	Electronics	RIF (OEPrNK) Complex	Russian/Indian	7	No	NIL	Yes	No	
25	Hyderabad	Ground Equipment	D2-13 (D4-8)	Attenuator for 4202R	Electronics	Radio Navigation-IFF	Russian	6	No	NIL	Yes	No	
26	Hyderabad	Tester	S-3 DR	I-Level Test Stand for 623-3DR	Electronics	Radio Navigation - IFF 623-3DR	Russian	5	No	NIL	Yes	No	
27	Hyderabad	Tester	I.82.390.055.03TU	B-12B data input and check device	Electronics	K-DLI Communication Complex	Russian	35	No	NIL	Yes	Yes	
28	Hyderabad	Tester	ERP1-285	Operational Repair Panel (TEST SET for ARO 285)	Electronics	K-DLI Communication Complex	Russian	7	No	NIL	Yes	Yes	
29	Hyderabad	Ground Equipment	B10B-DLAM	B10 B-DLAM for B-21	Electronics	K-DLI Communication Complex	Russian	7	No	NIL	Yes	No	
30	Hyderabad	Tester	ZRP-B21 DLA	Desk operating panel for B-21	Electronics	K-DLI Communication Complex	Russian	6	No	NIL	Yes	No	
31	Hyderabad	Ground Equipment	K-50STU2504-2251-73 (K50STU2504225173)	Measuring kit for B-21	Electronics	K-DLI Communication Complex	Russian	6	No	NIL	Yes	No	
32	Hyderabad	Ground Equipment	ATSN.16.220 (ATMN-32-220)	Auto Transformer	Electronics	K-DLI Communication Complex	Russian	8	No	NIL	Yes	No	
33	Hyderabad	Ground Equipment	I86.704.30	KT-66 Cable	Electronics	K-DLI Communication Complex	Russian	7	No	NIL	No	No	
34	Hyderabad	Ground Equipment	MK3-69	Hydraulic Unit (Hydraulic Measuring Unit for HF set)	Electronics	K-DLI Communication Complex	Russian	2	No	NIL	Yes	No	
35	Hyderabad	Ground Equipment	KT-45Kch	Power Cable	Electronics	K-DLI Communication Complex	Russian	6	No	NIL	No	No	

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36	Hyderabad	Ground Equipment	4410A	High Power Wattmeter	Electronics	K-DLI Communication Complex	Russian	3	No	NIL	Yes	No	
37	Hyderabad	Ground Equipment	6365-2/L-202	Stand for Test Bench for R-805	Electronics	K-DLI Communication Complex	Russian	1	No	NIL	Yes	No	
38	Hyderabad	Ground Equipment	B10A1-KTs-ShM	Unit (Frame) for test bench of SIMVOL-M	Mechanical	K-DLI Communication Complex	Russian/ Indian	1	No	NIL	Yes	No	
39	Hyderabad	Ground Equipment	KT-17SM SIMVOL	Cable for SIMVOL Test Bench	Electronics	K-DLI Communication Complex	Russian/ Indian	1	No	NIL	No	No	
40	Hyderabad	Ground Equipment	KT-35SM SIMVOL	Cable for SIMVOL Test Bench	Electronics	K-DLI Communication Complex	Russian/ Indian	1	No	NIL	No	No	
41	Hyderabad	Tester	ERP18-982-3	Panel for Test Bench of R-098-3	Electronics	K-DLI Communication Complex	Russian	1	No	NIL	Yes	No	
42	Nasik	Tester	IIT-BSH-3 (11.9781.3.450.000)	Simulator for checking elect. circuit of gun in box 11.9781.3.800.000	Electrical	Gun (Armament)	Russian	20	No	NIL	Yes	No	
43	Nasik	Tester	11.9781.3.900.000	Tester to check built-in Gun (AI Fuse Tester)	Electrical	Gun (Armament)	Russian	30	No	NIL	Yes	Yes	
44	Nasik	Tester	RKSK-9ME (PKSK-9ME)	Monitoring panel (For checking X-59 circuit)	Electrical	Weapon Control System (30PI) (Armament)	Russian	11	No	NIL	Yes	Yes	
45	Nasik	Tester	OPKS-9ME	Monitoring panel (for checking X-59 circuit)	Electrical	Weapon Control System (30PI) (Armament)	Russian	9	No	NIL	Yes	Yes	
46	Nasik	Tester	UV-30 MKI-9500-0	Set of test eqpt (For Programming CMD5)	Electrical	Weapon Control System (30PI) (Armament)	Russian	15	No	NIL	Yes	Yes	
47	Nasik	Ground Equipment	AMZ-53 I/L A2111-0000	Hydraulic refilling trolley	Mechanical	Airframe and Engine	Russian/ Indian	52	No	NIL	Yes	Yes	

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									Items expected (Quantity)	Requirement of Indigenisation during 2018 - 2021 Yes/No			
48	Nasik	Ground Equipment	S Sh 07	Tyre building jig	Mechanical	Under carriage	Russian/ Indian	34	No	NIL	Yes	Yes	
49	Nasik	Ground Equipment	A1309M-0000	Multi purpose trolley (Engine trolley)	Mechanical	Engine	Russian	19	No	NIL	Yes	Yes	
50	Nasik	Ground Equipment	A 15078-0000	Engine mounting fixture	Mechanical	Engine	Russian	10	No	NIL	Yes	Yes	
51	Nasik	Ground Equipment	11.9950.N.100.000	TVC Trolley	Mechanical	Engine - TVC control system	Russian	3	No	NIL	Yes	Yes	
52	Nasik	Ground Equipment	6365-1218	Dolly for transportation of Engine	Mechanical	Engine	Russian/ Indian	26	No	NIL	Yes	Yes	
53	Nasik	Ground Equipment	11.9956.3.420.000	Hydraulic device to refuel with IPM-10 oil (GP-25 Oil Charging Rig) (Oil Dispensing Panel)	Mechanical	Airframe	Russian/ Indian	41	No	NIL	Yes	Yes	
54	Nasik	Ground Equipment	A3114-0000-0-17	Towing carrier	Mechanical	Ground Equipment	Russian	109	No	NIL	Yes	Yes	
55	Nasik	Ground Equipment	A-3202.0000	Blast deflector with cable	Mechanical	Ground Equipment	Russian/ Indian	17	No	NIL	Yes	No	
56	Nasik	Ground Equipment	MA1021.0000-0-3	Hydraulic Jack (Main)	Mechanical	Under carriage	Russian/ Indian	193	No	NIL	Yes	Yes	
57	Nasik	Ground Equipment	MA1021.0000-0-7	Hydraulic Jack(Nose)	Mechanical	Under carriage	Russian/ Indian	122	No	NIL	Yes	Yes	
58	Nasik	Ground Equipment	MA43.0000	Hydraulic jack single point bottle jack	Mechanical	Under carriage	Russian	69	No	NIL	Yes	Yes	
59	Nasik	Ground Equipment	A-1310 ML-0000	Multi purpose trolley (Universal Trolley)	Mechanical	Ground Equipment	Russian	67	No	NIL	Yes	Yes	

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60	Nasik	Ground Equipment	11.9976.2.000.000	Set of device for checking pneumatic system	Mechanical	Airframe	Russian	17	Yes	1	Yes	
61	Nasik	Ground Equipment	GUPM-300 (MP 60-M)	Calibration rig	Mechanical	Engine	Russian	16	Yes	1	Yes	
62	Nasik	Tester	6086A-02	Test panel for air-conditioning system with accessories	Electrical	Air Conditioning	Russian	11	Yes	1	Yes	
63	Nasik	Tester	KPA SAS-1-3M	Test Equipment SAS-6-11M (Tester for warning system)	Electrical	Warning System	Russian	7	Yes	1	Yes	
64	Nasik	Tester	KPA SSP	Tester for fire detection and extinguishing system	Electrical	Fire fighting system	Russian	13	Yes	16	Yes	
65	Korapat	Ground Equipment	R333	DC Bridge used with KPA SSP	Electrical	KPA SSP	Russian	9	Yes	16	Yes	
66	Nasik	Tester	KPA R1	DRTS Pulse counter Tester with accessories	Electrical	Fuel flow meter system	Russian	6	Yes	1	Yes	
67	Korapat	Tester	PNP-132 BZ	Test Panel for KRD 99B (For I-Level)	Electrical	Engine	Russian	5	Yes	1	Yes	
68	Korwa	Tester	KPA-KISS-2-10M-I	Test Checking equipment for MFWS system	Electrical	Electrical (MFWS)	Russian	4	Yes	1	Yes	
69	Korapat	Ground Equipment	11.9795.350.000	Cable of (Tester) System for T4 parameter calibration	Electrical	Engine	Russian	15	Yes	16	No	

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								Items expected (Quantity)	Requirement of Indigenisation during 2018 - 2021 Yes/No	Tentative Requirement (Quantity)			
70	Korapat	Tester	UP-29A	Unit for thermocouples check (Probe for Thermocouple)	Electrical	Engine	Russian	25	Yes	1	Yes	Yes	
71	Nasik	Tester	KU-8	Oxygen Field Tester	Mechanical	Oxygen	Russian	25	Yes	1	Yes	Yes	
72	Korwa	Tester	6610-CCU30-8001	CCU Processor	Electrical	Flight Data Recorder	Russian	7	Yes	36	No	No	
73	Korwa	Tester	6610-CCU30-8004	CCU Ground Support Interface	Electrical	Flight Data Recorder	Russian	4	Yes	36	No	No	
74	Nasik	Ground Equipment	KPA-5	Turn Table (Test Equipment for Gyro Instruments like AHRS)	Mechanical	INGPS	Russian	8	Yes	8	Yes	No	
75	Nasik	Tester	KTU-1M	Tachometer Check set up (Tachometer Tester)	Electrical	Engine	Russian	6	Yes	11	Yes	Yes	
76	Nasik	Tester	KMIV.794726.011 (KPA-98)	Test equipment of items SBKV-2B-1, IIV (Test Equipment KPA-98)	Electrical	Navigation and Weapon aiming system	Russian	7	Yes	9	Yes	Yes	
77	Nasik	Tester	KPA DAU -72	Test equipment of DAU-72-4	Electrical	Air Data System	Russian	7	Yes	9	Yes	Yes	
78	Nasik	Tester	KPA SOS-2-7-1	Test equipment of SOS-2-7-1	Electrical	Signal Limiting System (SLS)	Russian	9	Yes	9	Yes	Yes	

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79	Nasik	Tester	KPA-72 Ser.3	Test equipment for INP-R-1	Electrical	Navigation	Russian	3	Yes	15	Yes	Yes	
80	Nasik	Tester	KPA SVS-2 Ts-U BIS	Test equipment of SVS-2Ts-U	Electrical	Air Data Computer System	Russian	8	Yes	9	Yes	Yes	
81	Nasik	Ground Equipment	R-33	Resistance Box Accuracy 0.2 for KPA-SVS	Electrical	Electrical	Russian	16	Yes	9	Yes	No	
82	Korwa	Tester	6610-ITS30-4000	I-Level Tester for FDR with accessories	Electrical	Fligh Data Recorder	Russian	8	Yes	9	Yes	Yes	
83	Korwa	Tester	251505217	I-Level Test Bench for SIGMA-95NAA with accessories	Electrical	LRU Level test station	Russian	8	Yes	5	Yes	No	
84	Nasik	Tester	137E (137I) (137I) (TIZ-1) / (30.9976.0000.000)	Leak Tester (Leak Tester for Waveguide Check, Pneumatic Panel for cockpit pressurisation)	Pneumatic	Pneumatic Panel	Russian	5	Yes	9	Yes	Yes	
85	Hyderabad	Tester	ARM RLSU (SNK 30 MK)	Automated check station (Tester for testing of NO-11M Complex)	Electronics	RADAR Complex	Russian	8	Yes	1	Yes	Yes	
86	Korwa	Tester	KPA BRP -3	I-Level Test Equipment for BRP-3.	Electronics	RIF (OEP+NK) Complex	Russian	3	Yes	1	Yes	Yes	
87	Korwa	Tester	KPA BSPI 6	I-Level Test Equipment for BSPI - 6	Electronics	RIF (OEP+NK) Complex	Russian	9	Yes	1	Yes	Yes	
88	Korwa	Tester	KPA BTS VM 486-1	I-Level Test Equipment for BTsVM 486-01 (MC-1)	Electronics	RIF (OEP+NK) Complex	Russian	7	Yes	1	Yes	Yes	

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								Maintenance / Repair expected	Indigenisation Requirement				
								Items expected (Quantity)	Requirement of Indigenisation during 2018 - 2021 Yes/No	Tentative Requirement (Quantity)			
89	Korwa	Tester	KPA KBP-1	I-Level Test Equipment for KBP-1 (Integrated Power Supply of RIF)	Electronics	RIF (OEPrNK) Complex	Russian	10	Yes	1	Yes	Yes	
90	Hyderabad	Tester	SPR-420 M	I-Level Test Stand for 4202	Electronics	Radio Navigation	Russian	2	Yes	1	Yes	No	
91	Hyderabad	Ground Equipment	P-601	Device for 4202R/623-3DR	Electronics	Radio Navigation	Russian	2	Yes	1	Yes	Yes	
92	Hyderabad	Ground Equipment	P-604	Device for 4202R/623-3DR	Electronics	Radio Navigation	Russian	3	Yes	1	Yes	Yes	
93	Hyderabad	Ground Equipment	FC-SW-01	Sine Wave Frequency Converter for NO11M	Electronics	Radar Complex	Russian	16	Yes	1	Yes	No	
94	Hyderabad	Ground Equipment	FC-SW-02	Multipurpose electronic frequency meter with frequency converter for NO11M	Electronics	Radar Complex	Russian	1	Yes	1	Yes	No	
95	Hyderabad	Tester	ST01-ARO 285	LNVK 442261.006 TEST STAND for ARO 285	Electronics	K-DLI Communication Complex	Russian	3	Yes	1	Yes	No	
96	Hyderabad	Tester	SPB-170K	Test unit for R800 L2E	Electronics	K-DLI Communication Complex	Russian	5	Yes	1	Yes	No	
97	Hyderabad	Ground Equipment	126.122.597	Shock absorber L2E unit-5	Electronics	K-DLI Communication Complex	Russian	2	Yes	1	Yes	No	
98	Hyderabad	Ground Equipment	UNIT -14	Control panel with key board for R800 L2E	Electronics	K-DLI Communication Complex	Russian	4	Yes	1	Yes	No	

Su-30MKI TTGE - Maintenance, Repair & Indigenisation for Follow on Support under " Make in India"

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Project: Su-30MKI	Customer: HAL	Divisional Contact Person	
		Nasik: Shri S K Barve, DGM (Design), Ph No:94206 95047, Shri B K Malik, CM (Design), Ph No:99707 19988 ; Hyderabad: Shri Ramana Rao, CM(A&T), Ph No:99899 53404 ; Korwa: Shri R K Gupta, DGM (Su-30 Plg), Ph No:94514 07842, Shri Ajay Kumar, Mgr (Su-30), Ph No:94159 65118 ; Koraput: Shri Babrubahan Sahu, Sr Manager (Eqpt Indg Proj), Ph No: 94373 72708:	

Items proposed for Maintenance/ Repair and Indigenisation











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								Maintenance / Repair expected	Indigenisation Requirement				
									Items expected (Quantity)	Requirement of Indigenisation during 2018 - 2021 Yes/No			
99	Nasik	Tester	ZRU-IT – 1	Charge & Discharge Device (Tester for E/Seat battery)	Electrical	Ejection seat	Russian	17	Yes	3	Yes	Yes	
100	Hyderabad	Ground Equipment	BD3.60.21 UMR-P/SD-1A	Tester (MPI Tester)	Electrical	SUO (30PI) (Armament)	Russian	154	Yes	1	Yes	No	
101	Nasik	Tester	PK 68 M	Monitoring panel E294:E299el (Tester for BD3, BD4 & MBD3/ Checking panel)	Electrical	Weapon Control System (30PI) (Armament)	Russian	111	Yes	1	Yes	Yes	
102	Nasik	Tester	KPZ-30PI	Set of ZI Testers	Electrical	Weapon Control System (30PI) (Armament)	Russian	22	Yes	20	Yes	No	
103	Nasik	Tester	PKP-3.5	Panel for checking cartridges (E/Seat Tester)	Electrical	Ejection Seat	Russian	10	Yes	3	Yes	No	
104	Nasik	Tester	KP-3.5	Panel for checking cockpit seat	Electrical	Ejection Seat	Russian	14	Yes	9	Yes	Yes	
105	Nasik	Tester	KPA-2-ZBV	Barometric unit (Tester for ZBV of E/Seat)	Mechanical	Armament	Russian	15	Yes	2	Yes	Yes	
106	Nasik	Tester	R3043	DC Portable Bridge (Tester for E/Seat) (Portable Bridge)	Electrical	Ejection Seat	Russian	13	Yes	2	Yes	No	
107	Nasik	Tester	KPA 1-30 PI	Test Eqpt (Cables for checking SUO units)	Electrical	SUO (30PI) (Armament)	Russian	14	Yes	2	Yes	Yes	
108	Nasik	Tester	KPA-2-30PI	Test Eqpt (Cables for checking SUO units)	Electrical	SUO (30PI) (Armament)	Russian	11	Yes	2	Yes	Yes	

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Items proposed for Maintenance/ Repair and Indigenisation

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								Maintenance / Repair expected		Indigenisation Requirement			
								Items expected (Quantity)	Requirement of Indigenisation during 2018 - 2021 Yes/No				
109	Nasik	Tester	KPA 3-30 PI	Test Eqpt (Cables for checking SUO units)	Electrical	SUO (30PI) (Armament)	Russian	11	Yes	2	Yes	Yes	
110	Nasik	Tester	KPA – BP	Tester for checking unit BP-15P & BP-06 (Test and check of SUO system)	Electrical	SUO (30PI) (Armament)	Russian	13	Yes	2	Yes	Yes	
111	Hyderabad	Ground Equipment	KPA-21	Main Tester for checking SUO	Electrical	Armament	Russian	12	Yes	2	Yes	Yes	
112	Nasik	Tester	PKP-72-80	Monitoring panel for checking P-72-1DB2 Launcher	Electrical	SUO (30PI) P-72-1DB2 Launcher (Armament)	Russian	8	Yes	2	Yes	Yes	
113	Nasik	Tester	RPK-170E	Monitoring panel for checking AKU-170 Launcher	Electrical	Armament	Russian	9	Yes	2	Yes	Yes	
114	Nasik	Tester	RPK-470-UM	Monitoring panel for checking AKU-470 & APU-470 Launcher	Electrical	Armament	Russian	13	Yes	2	Yes	Yes	
115	Nasik	Tester	RKU-58-AE(PKU-58 AE)	Monitoring panel for checking AKU-58 Launcher	Electrical	Armament	Russian	15	Yes	2	Yes	Yes	
116	Nasik	Tester	PS-7-017E	Test instrument BSP-170 (for RVV-AE)	Electrical	Armament	Russian	8	Yes	6	Yes	Yes	
117	Nasik	Tester	PS-7-019	Test instrument BSP-470 (for R-27R)	Electrical	Armament	Russian	7	Yes	4	Yes	Yes	
118	Korwa	Tester	SAPFIR	SAPFIR System (Set A & B) with accessories	Electronics	FDR	Russian	29	Yes	3	Yes	Yes	

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Items proposed for Maintenance/ Repair and Indigenisation

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								Maintenance / Repair expected	Indigenisation Requirement				Requirement of Calibration / Functional Testing (Yearly) Yes/No
									Items expected (Quantity)	Requirement of Indigenisation during 2018 - 2021 Yes/No			
119	Nasik	Ground Equipment	UPK 300	Crane	Mechanical	Ground Equipment	Russian/ Indian	24	Yes	9	Yes	