

# Impact Assessment of Modernization Scheme of CPMFs

**Bureau of Police Research and Development  
Ministry of Home Affairs  
2010**

## **Impact Assessment of Modernization Scheme for CPMFs**

### **1. Introduction**

The Ministry of Home Affairs (MHA) has been implementing a scheme of Modernization of Central Para Military Forces (CPMFs) Scheme since 2002 with the following main considerations.

- To increase the strike capability of Forces with superior arms and ammunitions, strategic equipment and effective transport vehicles.
- To provide state-of-the-art Communication, Surveillance and Border Guarding systems which are the mainstay of any operational strategy.
- To continuously upgrade the skill of the troops by providing training facilities.
- To keep the troops operationally fit as also properly rested and recuperated.

In the year 2002, Cabinet Committee on Security (CCS) approved a modernisation plan for CPMFs (except SSB) initially for a period of 5 years from 2000-01 to 2004-05 with a total outlay of Rs. 3740 Crores. A separate modernisation plan for SSB was also approved by the CCS for the period of 3 years in 2005 and the total outlay was Rs. 440 Crores. Implementation of both these schemes was extended for another 5 years which has come to an end on 31.3.2010.

## **2. Objectives of the Scheme**

The key objective of the Scheme is up gradation and augmentation of the key components of provisioning of CPMFs, namely:

- **Weaponry**
- **Machinery and equipment**
- **Transport including watercrafts**
- **Communication and Surveillance equipment**
- **Training aids**
- **Clothing and tentage**

Main consequence expected out of this scheme is the emergence of new security related technologies and equipment, particularly in the areas of surveillance and border guarding.

In order to determine the effectiveness of this scheme, an Impact assessment study was entrusted to BPR&D.

## **3. Methodology Adopted by BPR&D for Impact Assessment**

a) Two meetings were held with the representatives of participating CPMFs i.e. Assam Rifles, BSF, CISF, CRPF, and SSB to understand the implementation of this scheme by respective organization.

b) Personal discussions were held by BPR&D with officers of some of the individual Forces and took stock of their performance.

c) This Bureau circulated a questionnaire to gather information in regard to purchase of various items under modernization head by the CPMFs. Information received are tabulated and placed at Annexure 'A'.

d) Information received from CPMFs were tabulated and analyzed to draw inferences.

#### **4. Issues Involved**

I. Under this scheme, each of the CPMF was required to prepare a futuristic perspective plan with details of items to be acquired.

II. Detailed discussions were held in MHA before finalization and approval of modernization budget for that particular Force.

III. This list is generally inviolable and if for any reasons of availability of better or next generation equipment of similar functionality is to be acquired by the Force, prior approval of MHA is required. Therefore, in essence, the sanction of this scheme is not generic in nature but item specific.

- IV. The probable rationale for this methodology is perhaps to pre-identify equipment or weaponry that will lead to actual modernization and will not be just an addition to total budget of CPMFs.
- V. Also, all expenditure heads under Modernization Scheme also exist in general budget. Therefore, in case some exclusivity is not accorded to items for which modernization budget is committed, then it will amount to a mere addition to total budget.
- VI. In any case a provision exists for alteration by referring the matter to MHA, which is not an insurmountable hurdle.
- VII. In actual practice for many items which exist in modernization list but also fall under financial powers of DG of a particular CPMF, items are bought under both budgetary heads. It gives a free hand to CPMFs to commit expenditure to either regular budget or to funds available under modernization grant. In the ultimate analysis, the easier option is exercised.

## **5. Points that Emerged During Discussions**

Since all the beneficiaries are bound by the directions issued by Ministry of Home Affairs (MHA), there are issues that constraint smooth implementation of this scheme. Mainly the following points emerged during discussions:

***A. Non Uniformity in Booking of Expenditure***

Many items are such which can be purchased either from modernization budget or from normal budget. Therefore, booking of expenditure is at the discretion of finance department of the respective Force, For example:

- **Assam Rifles** purchased a total of 1862 Gen Sets and for 1100 Gen sets expenditure was booked from Modernization Grant and for 762 from normal budgetary grant.
- For 45 numbers of 2 MBPS (Radio), 9 came from Modernization and 36 from regular budget.
- JCB Tipper, 1 from modernization and 3 from regular budget.
- BP Jackets 2250 from modernization and 10,100 from regular budget.
- CISF purchased 5.56 Insas Rifles 33 form modernization and 30 from regular budget.
- SMG 9 mm Carbine, 5059 from modernization grant and 3041 from regular budget.

The above list is not exhaustive but merely by way of example. In the ultimate analysis, opinions may differ on desirability of such a provision. BPR&D feels that same product or umbrella of products should not appear in both the lists.

***B. Authorization to purchase Propriety Items***

Generally Forces have found it difficult to acquire propriety items. The issue of price discovery is the main reason for such reluctance on the part of competent authority. From the modernization of the Force point of view however, it acts as an impediment. The Forces are unanimous to desire that they may be authorized to purchase propriety items, which fall in the approved QRs.

***C. Approved QRs may be valid up to one year***

As per the present practice, there is no defined provision regarding life of QRs. Piecemeal changes are made as and when a new product with better features comes in the market. A wholesome review is not made. Therefore each QR needs to be reviewed every year. Till reviewed QRs are finally approved by the competent authority and put in place, the old QRs should remain valid.

***D. Continuation of the Scheme***

All the CPMFs agreed that the Scheme is helpful in its present form and should be continued

***E. Difficulty in taking approval of MHA***

Items which purchase of which are beyond the financial competency of DG of the Force requires sanction by MHA. When a case falling in this category is referred to MHA for sanction, it

gets stuck in issue of justification and resultant clarifications. This results in delay and avoidable movement of file and thus a time consuming process. A separate procedure within the GFR may be laid out by MHA so that MHA may accord the financial sanction in a routine manner.

***F. Delay in booking expenditure and acquiring equipment, especially in imported items***

This problem is all pervasive in almost all Government purchases; however, the problem becomes more acute in case imported items have to be acquired.

***G. Making Provision of Dedicated Manpower***

BSF has observed that some of technical equipment requires trained personnel, in the absence of which such equipment remain underutilized. Therefore there is perhaps a case for sanctioning dedicated manpower along with sanctioning of such equipment.

## **6. Key Findings of Impact Assessment**

This scheme has made considerable difference in modernization of all participating CPMFs. With the additional funding available to the CPMFs, the Forces have been empowered to acquire state-of-the-art equipment and weaponry. This observation is supported by the following observations:



1. The basic model of the scheme is sound as the perspective plans are prepared by the respective Forces keeping in view the lacunae that hinder their endeavour to modernize their Forces and achieve operational superiority.

2. However, due to various mandatory purchase procedures and market conditions, more than reasonable time is taken for booking funds and taking physical possession of the items. This is borne out by the fact that modernization funds which were expected to have been booked and items purchased could not be accomplished within the targeted period and scheme had to be extended by another 5 years. Even after that as on date, funds are still unspent and are sitting in the books of the Forces. Force wise detail is as follows:

(All Figures in Crores)

<b>Name of the Force</b>	<b>Total Funds Earmarked</b>	<b>Funds expended till 31.3.2009</b>	<b>Funds expended till 31.3.2010</b>	<b>Unspent Amount</b>	<b>% of Funds Unspent till 31.3.2010</b>
Assam Rifles	484.75	329.87	347.05	110.70	22.84
BSF	2330.85	1394.84	1547.26	783.59	33.62
CISF	112.10	106.14	106.58	5.53	4.93
CRPF	542.75	139.60	468.38	74.37	13.70

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ITBP	187.78	175.35	184.11	3.67	1.95
NSG	82.50	36.78	47.46	35.04	42.47
SSB	444.00	250.39	280.00	160.00	36.04

3. Third point is non-availability of those items which were approved at the time of the launch of the scheme. Since the scheme is spread over a long period of 5 to 8 years with pre-defined items to be purchased, the list is affected by obsolescence. In many cases, next generation products hit the market or requirements of the Forces undergo change, many times due to newly acquired capabilities of the adversaries. This leads to reworking of items to be purchased requiring approval by MHA. MHA may consider reformulating this scheme by taking cabinet approval under generic heads indicated above and not for lists of items.

4. Though the study of areas like Weapons and Training reflect the procurement of modern and sophisticated items to meet the changing needs of police forces, there seem to be little focus on 'modernization'. Perhaps 10 years back many of such items which real time modernize the Force were not available in the market.

5. Overall availability of infrastructure with the CPMFs has improved during the period under review due to MPF funding. However, a considerable gap still exists between the required and the available infrastructure and equipment. Reason for continuation of this schism is the constant upgrading of the adversaries in almost entire range of weaponry, IEDs, methodology of aggression and

lethality of their operations. It will be apt to indicate that there is a need to have a continuous source of funding due to very dynamic nature of CPMF operations.

6. Due to recently enhanced powers of DG for procurement, process inefficiencies have reduced to a considerable degree leading to enhanced effectiveness of this Scheme, especially in fund disbursement and utilization

## **7. Recommendations**

First. The Scheme of Modernization of CPMFs has proved to be very useful and needs to be continued albeit with a different format.

Second. All the Forces without any exception failed to expend the amount allotted to them in spite of increased time limit from originally planned duration of 4 years (2002-05) points out to a requirement for altering the model on which this scheme is built. Even after extending the scheme till 2010, pendency remain as regards utilization of funds which has been indicated above.

Third. To avoid repetition of such an eventuality, it is felt that the scheme should be more flexible by incorporating the following provisions:

- a. Cabinet approval should be taken only for a total amount for all Forces with details of amount required for each Force. Lists of items should not form part of the cabinet approval.

- b.MHA needs to retain the competency to allot funds to each Force under predefined heads within the amount approved by the cabinet. Existing expenditure heads namely Weaponry, Machinery and equipment, Transport including watercrafts, Communication and Surveillance equipment, Training aids, Clothing and tentage cover almost all operational requirements except housing, which may be included.**
- c.Instead of calling for the entire list of items required for modernization at the beginning of the scheme, Forces may be asked to submit broad spectrum of likely requirements to arrive at the financial requirements for seeking cabinet approval.**
- d.As a replication of Modernization of Police Forces (MPF) Scheme designed for State Police Forces, a High Powered Committee be constituted in MHA for the purpose of holding detailed discussion and allotting funds valid to be spent in next 2 years before the beginning of each financial year. Such meeting with high powered committee however be held each year so that a continuous stream of review and approval of funds takes place.**

**e. The suggested constitution of High Powered Committee is:**

- 1. Home Secretary**
- 2. DG CPMF**
- 3. Joint Secretary (Police Modernization) MHA,**
- 4. DG BPR&D,**
- 5. FA (Home)**
- 6. JS (PF-I) of Ministry of Finance (Department of Expenditure).**

**Fourth. For imported items, separate provisions need to be made for identifying the products available in international markets, the period of acquisition and booking of funds. MHA may consider setting up a separate committee for this purpose**

**Fifth. To limit inventory holding as also to enable creation of a pool of experienced technicians from within the Forces, it is recommended that all CPMFs should acquire generic products of similar brand of the same vendor with the specifications as per their requirements. For example, weapons, vehicles, surveillance equipment etc. be preferably of the same model and company in as much as it pertains to similar requirements. This will give bulk purchase power for price negotiation. In any case this is not a new suggestion, recently BP Jackets and AK 47 series weapons are being purchased by the orders of MHA in bulk for all Forces.**

**Sixth.** To support the above contention, as well as to evaluate various products available in the market, MHA may consider appointing a permanent Committee of DsG of all CPMFs and BPR&D to act as Technical Consultant/Advisor for finalizing latest technology trends/ideally suited equipments available in the market. On the basis of recommendations of this Committee, items common to two or more Forces may be acquired.

**Summing Up:** The modernization scheme of CPMFs should continue but with an altered format. Cabinet approval may be taken for aggregate budget under broad heads and not item wise.

## Assam Rifles

### Communication Equipments

Sr. No.	Name of Equipments	Purchased from Modernisation Budget	Purchased from Regular Budget	Total	Target	Short Fall
1.	Digital Radio	20 (100%)		20	20	
2.	RS Star(5/ 25 watt)	1140(100%)		1140	1140	
3.	Radio Monitoring Stns	30(100%)		30	30	
4.	VSAT Terminals	62(94%)		62	66	4
5.	SCRR	117(100%)		117	117	
6.	Digital Exchange		407	407	407	
7.	Gen Set	1100 (59.08%)	762(40.92%)	1862	1862	
8.	MCRR	172(100%)		172	172	
9.	Pt to Multi Pt sys	2(18.18%)		2	11	9
10.	Secure Digital Phone	66(70.21%)		66	94	28
11.	Secure Digital FAX				94	94
12.	2 MBPS( Radio)	9(20%)	36(80%)	45	45	
13.	Bulk Encryption Unit	48			42	

## Assam Rifles

### Medical Equipments

<b>Sr. No.</b>	<b>Name of Equipments</b>	<b>Purchased from Modernisation Budget</b>	<b>Purchased from Regular Budget</b>	<b>Total</b>	<b>Target</b>	<b>Extra Requirement</b>
1.	Foetal Resucitator	42		42	42	
2.	Warm Food Trolleys	60		60	60	
3.	Pneumatic Splint	92		92	92	288
4.	Oxygen Concentrator	10		10	10	288
5.	Washing Machine	62		62	62	
6.	Syringe Infusion Pump	60		60	60	
7.	Scoop Stretcher	92		92	92	288
8.	Para Guard Stretcher	92		92	92	288
9.	Pulse Oxymeter	60		60	60	
10.	MI Room Equipments	60		60	60	
11.	Walk in cold storage	4		4	4	2



## Assam Rifles

### Motor Vehicles

Sr. No.	Name of Vehicles	Purchased from Modernisation Budget	Purchased from Regular Budget	Total	Target	Shortfall & Extra Requirement
1.	Motor Cycle					60
2.	Maruti Gypsy		100	100	100	
3.	Bolero		26	26	26	
4.	Heavy Vehicle(TATA SA 1212 TC/ 42)	10 (100%)		10	10	
5.	Logistic Vehicle(TATA SA 1212 TC/ 42)	80 (100%)		80	80	
6.	Mine Protective (Army Version)				28	28
7.	TATA LATC		57	57	35	
8.	Mobile Van(Dental) on TATA SA 1212				57	57
9.	Water Bowser	9		9	6	
10.	Rec. Vehicle(TATA SA 1212 TC/ 42)	4		4	9	5
11.	Dozer(BD-80)	4 (100%)		4	4	2
12.	JCB with Tipper	1	3	4	4	
13.	Bus(TATA 1510/52 seater Bus)	16		16	4	
14.	Folk Lift Truck		10	10	16	6
15.	Tractor and Trolley	35 (100%)		35	35	
16.	Civil BP Vehicle					6
17.	All Terrain Vehicle					2
18.	BP Light Vehicle					137
19.	BP Medium Vehicle					126
20.	Ambulance					100
21.	Fire Tender					1

## Assam Rifles

### Arms and Ammunition

Sr. No.	Name of Weapons	Purchased from Modernisation Budget	Purchased from Regular Budget	Total	Target	Shortfall & Extra Requirement
1.	5.56 mm INSAS Rifle		31340	31340	31340	9964
2.	5.56 mm LMG		2832	2832	2232	1236
3.	Sniper Rifle				216	898
4.	84 mm Rifle		582	582	582	1982
5.	AGL		66	66	116	192
6.	Multi Grenade Launcher				31	850
7.	Director 81 mm Mor		20	20		
8.	Mine Detector		326	326	326	132
9.	Explosive Detector		46	46	46	674
10.	Dragon Light		592	592	592	
11.	BD Eqpt		3	3	3	
12.	High Resolution Binocular		320	320	320	
13.	HH GPS		320	320	320	1764
14.	Laser Range Finders		92	92	92	1348
15.	IED Jammers		14	14	14	67
16.	Digital Ops		8	8	8	
17.	HHTI		31	31	31	336
18.	PNV Binocular		231	231	564	817
19.	PNV Goggles		273	273	564	2851
20.	PNS for 5.56 Rifles		631	631	2802	17732
21.	PNS for 5.56 LMG		450	450	1288	4347
22.	PNS for 84 mm Rifles	18		18	186	1086
23.	Telescope M1 Rifles		50	50	186	136
24.	Day light Telescope LMG		62	62	272	1381
25.	Day light Telescope for 5056 Rifles		104	104	186	12598
26.	Holographic Reflex Sight				2000	2000
27.	Protective Eye Wear	1000		1000	1000	
28.	RSP Tool Kit	12		12		
29.	Bomb Blanket	8		8		
30.	DFMD	20		20		
31.	Telescope Extension Search Mirror	8		8		
32.	Under Veh. Search sys	65		65		

33.	Telescope Manipulator	8		8		
34.	Remote operated Wire Cutter	8		8		
35.	HHD	65		65		
36.	Portable DFMD	8		8		
37.	Hook and Line set	8		8		
38.	Prodder	8		8		
39.	Hand Held Search Light	400		400		
40.	Pistol 9 mm Beretta					1800
41.	Projector Miniflare					305
42.	Rifle Excalibur					7710
43.	Light Wt. MMG					397
44.	Assault Rifle					522
45.	CQB Weapon					684
46.	General Purpose Machine Gun					24
47.	Corner Shot Machine Gun					384
48.	55 mm Mortar					213
49.	81 mm Mortar					88
50.	60 mm Mortar					24
51.	Under Barrel Grenade Launcher					2530
52.	AFMDC					86
53.	Laser Aim Pointer					5173
54.	Mobile Deactivator					67
55.	Veh Mounted IED Jammer					66
56.	Binocular light					2124

## Assam Rifles

### CTS

<b>Sr. No.</b>	<b>Name of Items</b>	<b>Purchased from Modernisation Budget</b>	<b>Purchased from Regular Budget</b>	<b>Total</b>	<b>Target</b>	<b>Shortfall &amp; Extra Requirement</b>
1.	BP Jacket	2250	10100	12350	18800	6237
2.	BP Pataka		18600	18600	18600	
3.	BP Helmet				1400	1400
4.	Rain Suit	2000		2000	2000	
5.	Sleeping Bag	2000		2000	2000	
6.	Lt. Wt. Spl. Rucksack	2000		2000	2000	
7.	Multipurpose camp Stove	1080		1080	1080	
8.	Multipurpose Survival Tools	2000		2000	2000	
9.	Mountaineering Mattress	2000		2000	2000	
10.	Hydration Pack	2000		2000	2000	
11.	Powerful Handheld Led Torch	1480		1480	1480	
12.	Assault Jacket	2000		2000	2000	
13.	Light Wt BP Jacket					19350

## Arms and Ammunition

Sr. No.	Name of Weapons	Purchased from Modernisation Budget	Purchased from Regular Budget	Total	Target	Extra Requirement
1.	5.56 mm INSAS Rifle	10790		10790	10790	10000
2.	5.56 mm INSAS Skeltal	33	30	63	63	
3.	5.56 mm INSAS DP	1730		1730	1730	
4.	SMG 9 mm Carbine	5059	3041	8100	8100	6000
5.	SMG 9 mm Skeltal	36		36	36	
6.	SMG 9 mm Carbine DP	250		250	250	
7.	Pistol Auto 9 mm	1718	2624	4342	4342	7500
8.	Pistol Auto 9 mm Skeletal	26		26	26	
9.	SLR 7.62 mm Skeletal	40		40	40	
10..	LMG 5.56mm	220		220	220	500
11.	LMG5.56mm skeletal	20		20	20	
12.	MMG 7.62mm	5		5	5	25
13.	51mm Mortar	34		34	34	25
14.	81mm Mortar	12		12	12	
15.	Sniper Rifle	7		7	7	250
16.	AK-47 Rifle	4000		4000	4000	7921
17.	Glock Pistol 9mm	712		712	712	2000
18.	MP 5k	143		143	143	1000
19.	MP 5 A3	22		22	22	
20.	BP Jacket(LW)	900	2650	3550	3550	12500
21.	Assorted gadgets for STTC	1		1		
22.	DFMD	2		2		
23.	DVR Card	2		2		
24.	IP Camera with software	2		2		
25.	RTVS	16		16		
26.	Simulators	2		2		
27.	Mobile phones	142		142		
28.	Access Control systems	12		12		
29.	Anti Intrusion system	12		12		

30.	Building Protection system	12		12		
31.	Colour Photo copier	12		12		
32.	Computer Equipment	12		12		
33.	Fire Protection Equipment	12		12		
34.	Firing Range equipments	12		12		
35.	Indoor Training equipments	12		12		
36.	IWESS	2		2		
37.	Metal Detector	12		12		
38.	Miscellaneous security items	12		12		
39.	Perimeter protection system	12		12		
40.	Photo copier	12		12		
41.	Physical fitness equipment	12		12		
42.	Riot Drill Equipment	12		12		
43.	SATS	4		4		
44.	Video Surveillance Systems	12		12		
45.	PNS for rifle 5.56mm					250
46.	Ammunition for 9mm					3 Crore
47.	Ammunition for 5.56mm					2.5 Crore
48.	Ammunition for 7.62mm SLR					2 Crore
49.	Ammunition for 7.62 A K 47					2 Crore
50.	Ammunition for 0.22mm					10 lakh
51.	Binocular prismatic					125
52.	PNV goggles					125
53.	PNS for LMG 5.56mm					25

**Motor Vehicles**

<b>Sr. No.</b>	<b>Name of Vehicles</b>	<b>Purchased from Modernisation Budget</b>	<b>Purchased from Regular Budget</b>	<b>Total</b>	<b>Target</b>	<b>Extra Requirement</b>
1.	Bus 52 setters		1	1	1	
2.	Trucks		7	7	7	
3.	Mini truck		10	10	10	
4.	Light Vehicles		28	28	28	
5.	Ambulance		2	2	2	
6.	Motor Cycles		24	24	24	
7.	Car		7	7	7	
8.	Mini Bus		2	2	2	
9.	Bus CNG		3	3	3	

## CTS

Sr. No.	Name of Items	Purchased from Modernisation Budget	Purchased from Regular Budget	Total	Target	Extra Requirement
1.	Cloth BD Serge		12000 mts	12000 mts	12000 mts	
2.	Cloth TC White Shirting		56450 mts	56450 mts	56450 mts	
3.	Ground Sheet		960 Nos	960 Nos	960 Nos	
4.	Gloves Leather/Woolen		193 Prs	193 Prs	193 Prs	
5.	Kit Box Steel		3000 Nos	3000 Nos	3000 Nos	
6.	Caps Water Proof		7600 Nos	7600 Nos	7600 Nos	
7.	Socks Woolen Khaki		183000 Prs	183000 Prs	183000 Prs	
8.	Water Bottle Plastic		5000 Nos	5000 Nos	5000 Nos	
9.	Rain Caps		14300 Nos	14300 Nos	14300 Nos	
10.	Cloth Polyester Khaki		78150 mts	78150 mts	78150 mts	
11.	Shoe Canvas Brown		11250Prs	11250Prs	11250Prs	
12.	Boot Ankle Canvas		2750Prs	2750Prs	2750Prs	
13.	Cloth TC Khaki		150495Mts	150495Mts	150495Mts	
14.	Cloth Shirting Angola		6775mts	6775mts	6775mts	
15.	Great coat Short		2100Nos	2100Nos	2100Nos	
16.	Blanket		75210 Nos	75210 Nos	75210 Nos	
17.	Jersey Woolen Khaki		8900Nos	8900Nos	8900Nos	
18.	Plate Stainless Steel		2400Nos	2400Nos	2400Nos	
19.	Lathi Short		26300Nos	26300Nos	26300Nos	
20.	Shoe leather Brown		2200Prs	2200Prs	2200Prs	



### Communication Equipments

Sr. No.	Name of Equipments	Purchased from Modernisation Budget	Purchased from Regular Budget	Total	Target	Short Fall
1.	Mobile VHS 25 Watt		271	271		
2.	Bulk Encryption System		4	4		
3.	Digital Exchange		2	2		
4.	Radio Jammer		6	6		
5.	Video Camera Pin Hole type		1	1		
6.	Assorted Gadgets for STTC	1		1		
7.	DFMD	1		1		
8.	DVD Card	1		1		
9.	IP Camera with Software	1		1		
10.	RTVS	8		8		
11.	Simulators	1		1		
12.	Mobile Phones	71		71		
13.	LAN		12	12		
14.	Server		25	25		
15.	Net Work Printers		18	18		
16.	Battery Charge System		7	7		
17.	Access control System	6		6		
18.	Anti Intrusion System	6		6		
19.	Building Protection system	6		6		
20.	Colour Photo Copier	6		6		
21.	Computer Equipment	6		6		
22.	Fire Protection Equipment	6		6		
23.	Firing Range Equipment	6		6		
24.	Indoor Training Equipment	6		6		
25.	IWESS	1		1		
26.	Metal Detector	6		6		
27.	Misc. Security Equipment	6		6		
28.	Perimeter Protection System	6		6		
29.	Photo copier	6		6		
30.	Physical Fitness Equipment	6		6		

31	Riot Drill Equipment	6		6		
32	SATS	2		2		
33	Video Surveillance System	6		6		

### Communication Equipments

<b>Sr. No.</b>	<b>Name of Equipments</b>	<b>Purchased from Modernisation Budget</b>	<b>Purchased from Regular Budget</b>	<b>Total</b>	<b>Target</b>	<b>Short Fall &amp; Extra Requirement</b>
1.	VHF Set 5 Watt		2175	2175	6272	10397
2.	VHF Set 15 Watt		1815	1815	3685	4820
3.	HF Set 15 Watt		784	784	3834	7350
4.	HF Set 100 Watt		4	4	179	395
5.	Generators		1779	1779	2370	1725
6.	Batteries		6925	6925	15254	19329
7.	UHF Set		75	75		
8.	TX MHS -124 500 Watt		20	20		
9.	VLH/HF RX HS – 496		16	16		
10.	Mains Battery Charger H/L Duty		627	627	841	617
11.	PVM		2188	2188	2775	2008
12.	Satellite Phone		6	6		
13.	ULSB Exchange		216	216	470	588
14.	Auto Exchange				35	35
15.	Encryptors/ Ciphing System					
16.	Best Equipment		85	85		
17.	Jammers					
18.	Smart Equipment		547	547		
19.	POLNET		24	24	86	124

**Motor Vehicles**

<b>Sr. No.</b>	<b>Name of Vehicles</b>	<b>Purchased from Modernisation Budget</b>	<b>Purchased from Regular Budget</b>	<b>Total</b>	<b>Target</b>	<b>Shortfall</b>
1.	I/Cycle		761	761	1025	264
2.	Light Vehicle		2842	2842	4618	1776
3.	Med Vehicle		2022	2022	3678	1656
4.	Heavy Vehicle		1936	1936	2602	666
5.	BP Light Vehicle	212		212	428	216
6.	BP Med. Vehicle	168		168	422	254
7.	MPVs	24		24	24	3
8.	LATCs	24	24	48		-
9.	Others	20	20	40		-
10.	Buldozer	4		4	4	
11.	Bullet Proofing of vehicles	380		380	380	
12.	Excavators	9		9	9	
13.	Light Ambulance	30		30	30	
14.	LRVs	5	17	22		
14.	Light Armoured Troops Carrier	20		20	20	

**BSF**

**Arms and Ammunition**

<b>Sr. No.</b>	<b>Name of Weapons</b>	<b>Purchased from Modernisation Budget</b>	<b>Purchased from Regular Budget</b>	<b>Total</b>	<b>Target</b>	<b>Shortfall</b>
1.	105 mm Light Field Gun	138		138	138	
2.	14.5/20mm Anti Material Rifle	100		100	100	
3.	51mm Mortar	1549		1549	1549	
4.	84mm Carl Gustav Rocket Launcher (CGRL)	575		575	575	
5.	Automatic Grenade Launcher	89		89	633	544
6.	CM 9mm				34377	34377
7.	LMG 5.56mm INSAS	17861		17861	20077	2216
8.	Rifle 5.56mm INSAS	126443		126443	126443	

**BSF****Equipments**

<b>Sr. No.</b>	<b>Name of Equipments</b>	<b>Purchased from Modernisation Budget</b>	<b>Purchased from Regular Budget</b>	<b>Total</b>	<b>Target</b>	<b>Short Fall</b>
1.	Bomb Blanket	20		20	43	23
2.	Hand Held Metal Detector	43		43	43	
3.	I R Filter for Dragon Search Lights	17		17	43	26
4.	Drilling machine	17		17	43	26
5.	Explosive Detection Kit	16		16	43	27
6.	Explosive Detector	27		27	43	16
7.	Extension Search Mirror	43		43	43	
8.	Prodder	43		43	43	
9.	Under Vehicle search Mirror	43		43	43	
10.	Global Positioning System (GPS)	6448		6448	6448	
11.	Compass	14481		14481	14481	
12.	Deep Search Mine/Metal Detector (DSMD)	677		677	1036	359
13.	Hand Held Search Light (HHSL)	3896		3896	3896	
14.	Laser Range Finder (LRF)	105		105	391	286
15.	Hand held Thermal Imager	445		445	445	750
16.	Passive Night Vision Binocular	5649		5649	5649	
17.	Passive Night Vision Monocular	1886		1886	1886	
18.	Floating BOP	9		9	9	
19.	Swamp Boat	1		1	1	
20.	Fast Attack Crafts				4	4
	Synthetic Web Equipments	112496		112496	175000	62504
21.	Driving Simulators for Med/Light vehicles	2		2	2	
22.	Electrically control target system	6		6	6	
23.	Grenade simulator	50		50	50	

24.	Infantry weapons effect simulator system	1		1	1	
25.	Multi media projector	12		12	12	
26.	Small arms training simulators	11		11	11	
27.	Digital HF sets	1500		1500	1500	
28.	Digital VHF/UHF sets	3000		3000	3000	
29.	Equipments for integration of voice and data on strategic communication network	125		125	125	
30.	Immarset mini M terminal	79		79	93	14
31.	Mobile phones	2004		2004	2004	
32.	Radio Jammers	3		3	3	
33.	Sweep Barrage Jammers	5		5	5	
34.	V-Sat Terminal	165		165	165	
35.	Wide Band Surveillance Receiver				36	36
36.	DF Network	3		3	3	
37.	Satellite Based Mobile Surveillance system				10	10
38.	Computer with accessories	52		52	52	
39.	Digital Video Camera	52		52	52	
40.	Digital Voice Recorder	52		52	52	
41.	Fax Machine	29		29	29	
42.	Global Positioning System (GPS)	249		249	249	
43.	Mobile Phones	259		259	259	
44.	Satellite Phones	12		12	12	
45.	Voice Loggers	40		40	40	
46.	Geographical Information System	1		1	1	
47.	Medical Equipment	46		46		