

(c) the details of projects which have not yielded expected results as per project objectives and the detailed reasons of the Government decision to continue or abandon the projects?

THE MINISTER OF STATE IN THE MINISTRY OF CHEMICALS AND FERTILIZERS (SHRI SRIKANT JENA): (a) to (c) Information is being collected and would be laid on the Table of the House.

**Manufacture of sensitive electronic items in the country**

3001 SHRI T.M. SELVAGANAPATHI: Will the Minister of COMMUNICATIONS AND INFORMATION TECHNOLOGY be pleased to state:

(a) whether it is a fact that an expert committee constituted by Government has identified certain products such as SIM cards, Network Management System, base stations, and switching centres among the electronic items that are important for security reasons and should be manufactured in the country;

(b) if so, the details thereof;

(c) whether the telecom equipment manufacturers' association has assured that the local industry has the capacity to manufacture these items and furnished a list of manufacturers that own patents in the relevant fields; and

(d) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF COMMUNICATIONS AND INFORMATION TECHNOLOGY (SHRI MILIND DEORA): (a) and (b) The Department of Telecommunications has constituted a Committee to finalize implementation of the Notification issued by Department of Information Technology (DIT), *vide* No. 8(78)/2010-IPHW dated 10th February, 2012 for providing preference to domestically manufactured electronic products, in procurement of those electronic products which have security implications for the country and in Government procurement for its own use and not with a view to commercial resale or with a view to use in the production of goods for commercial sale. The Committee is still deliberating on this issue.

(c) and (d) Telecom Equipment Manufacturers Association of India (TEMA) has given a list of major Indian companies engaged in the manufacturing of various telecom equipment/products domestically which is given in Statement.

**Statement**

*List of major Indian companies engaged in the manufacturing of various telecom equipment/products domestically*

Sl. No.	Telecom equipment Description	HS Code	Name of the company	IPR	Manuf. Facility
1	2	3	4	5	6
1.	Encryption/UTM platforms (TDM and IP)	85238020	BEL	India	India
			ITI	India	India
			ECIL	India	India
2.	IP/MPLS routers, Enterprise routers	85176930	Tejas Networks	India	India
			Real Time systems	India	India
			BA systems	India	India
			ECIL	India	India
			CDOT	India	India
			IIT Mumbai	India	India
			Infosys	India	India
			HCL	India	India
3.	Lease line modems, Managed Leased line Equipment		Real Time Systems	India	India
			UTL	India	India
			CDOT	India	India
			ITI	India	India
			BEL	India	India
4.	All type of Ethernet Switches- enterprise as well as Carrier grade, IP based new generation soft-switches, L2 and L3 switches, data networking equipment- copper/optical, consumer and carrier grades for public and private networks	85176990	Real Time Systems	India	India
			CDAC	India	India
			Tejas Networks	India	India
			CDOT	India	India

1	2	3	4	5	6
			Coral Telecom	India	India
			Shyam Telecom	India	India
			HCL	India	India
			VNL	India	India
5.	Carrier Ethernet Equipments		Tejas	India	India
			ECIL	India	India
			BEL	India	India
			Shyam Telecom	India	India
6.	Wireless/Wireline IP PABX/EPABX	85176990	Coral Telecom	India	India
			Real Time System	India	India
			BEL	India	India
			Matrix Communication	India	India
7.	CPE (WiFi Access points, Routers, modems/Interface converters, Media Converters, gateways, 2G/3G Modems, etc.)	85176290	Real Time Systems	India	India
			Shyam Telecom	India	India
			CDAC	India	India
			Sem India	India	India
			CDOT	India	India
			BEL	India	India
			Bharti Telelink	India	India
8.	IP Set-top Boxes		My Box	India	India
9.	SDH/Carrier-Ethernet/ Packet Optical/ Packet Transport	85177090	Fibcom	India	India
			Tejas Networks	India	India
			Ordyn	India	India
			Coral Telecom	India	India

1	2	3	4	5	6
			CDOT	India	India
			BEL	India	India
			UTL	India	India
			ITI	India	India
10. DWDM transmission	85177090	Tejas Networks	India	India	
		Fibcom	India	India	
		UTL	India	India	
		CDOT	India	India	
		BEL	India	India	
11. GPON	85177090	CDOT	India	India	
		Tejas Networks	India	India	
		Ordyn	India	India	
		SM Creative	India	India	
		ITI	India	India	
		Sai info Systems	India	India	
		HFCL	India	India	
		ECIL	India	India	
		UTL	India ,	India	
		Prithvi	India	India	
12. Cross-connects/MUX	85177090	Tejas Networks	India	India	
		Valiant Communication	India	India	
		Coral Telecom	India	India	
		Webfil	India	India	
		Puncom	India	India	
		UTL	India	India	

1	2	3	4	5	6
			BEL	India	India
			ITI	India	India
13.	GSM 2G&3G/4G, CDMA based wireless Access Systems including BTS, BSC, MSC, Media gateway, media server, GGSN, SGSN, Node B, RNC, E Node B, EPC, HLR, SMSC and other subsystems	85176100/ 85176290	VNL  Tejas Networks  Midas Communication  Gemini  Sloka Telecom  Tata Elaxi  Kaveri Telecom  Telsima  Maverick Networks  CDOT	India  India  India  India  India  India  India  India  India  India	India  India  India  India  India  India  India  India  India  India
14.	Campus/Enterprise GSM system, GSM PBX; 2G/3G Base system, MSC etc.	85176100/ 85176290	Coral telecom  Shyam Telecom  CDOT  Real Time Systems  VNL	India  India  India  India  India	India  India  India  India  India
15.	Broadband Wireless Access (Wifi/Wimax/ LTE- eNodeB, EPC etc.)	85176290	Real Time Systems  Tejas Networks  VNL  Coral Telecom  MAKSAT  CDOT, CARC	India  India  India  India  India  India	India  India  India  India  India  India

1	2	3	4	5	6
16.	Microwave radios (IP/Hybrid radios) Software defined radio, cognitive Radio, and Repeaters (RF/ RF over Optical), IBS and distributed antenna system	85176230	Shyam Telecom  HFCL  Coral Telecom  VNL  BEL  ECIL  ITI  CDOT  Terracom  Gemini	India  India  India  India  India  India  India  India  India  India	India  India  India  India  India  India  India  India  India  India
17.	Satellite Based system - Sat Hubs, Voice, VSAT, broadband, disaster management	85176990	Shyam Telecom  Sasken  BEL  ECIL	India  India  India  India	India  India  India  India
18.	Copper access (DSL/DSLAM)		Real Time System  Coral telecom  CDOT  Midas  UTL  Infosys	India  India  India  India  India  India	India  India  India  India  India  India
19.	Network Management System	85256011	NMS Works	India	India

1	2	3	4	5	6
			Tejas Networks	India	India
			CDOT	India	India
			HCL	India	India
			Wipro	India	India
			VNL	India	India
			Code Scape	India	India
			Tech Mahindra	India	India
20.	IP Camera/Security and surveillance communication systems, Sensors and Sensor based systems	85258090	BEL, ECIL	India	India
			VNL	India	India
			Shyam Telecom	India	India
21.	Digital Cable equipment (Cable Modem Termination System etc.)	85177090			
22.	Optical Fiber	85177090	Sterlite	India	India
			VTL	India	India

Note: In addition to these Indian companies like Wipro, HCL, Infosys, Tech Mahindra, TCS, Aricent, Sasken, etc. all have telecom facilities, where they develop products.

#### **Methodology for charging of excess spectrum**

3002. SHRI JAI PRAKASH NARAYAN SINGH: Will the Minister of COMMUNICATIONS AND INFORMATION TECHNOLOGY be pleased to state:

(a) whether Telecom Commission has recently approved methodology for charging of excess spectrum from the date of allotment till April, 2012 at a rate, which is higher than the TRAI recommended rate or auction price discovered for 3G spectrum;

(b) whether DoT is now proposing to recover charges for excess spectrum only prospectively at auction price by modifying the recommendations of the Full Telecom Commission;