

**GOVERNMENT OF INDIA
CIVIL AVIATION
LOK SABHA**

UNSTARRED QUESTION NO:3580

ANSWERED ON:13.02.2014

AIR NAVIGATION SERVICES

Gulshan Smt. Paramjit Kaur

Will the Minister of CIVIL AVIATION be pleased to state:

(a) whether the Government is contemplating to create an air navigation services entity as a subsidiary to Airports Authority of India as per the recommendations of Airports Authority of India Board and various expert committees such as Naresh Chandra Committee, Ajay Prasad Committee etc.;

(b) if so, the details thereof and if not, the reasons therefor;

(c) the details of date of installation of various air navigation equipment at various airports in the country and their life span, airport-wise; and

(d) the steps being taken to replace the obsolete air navigation equipment?

Answer

Minister of State in the Ministry of CIVIL AVIATION (SHRI K. C. VENUGOPAL)

(a) & (b): No, Madam. Government is not presently contemplating to create an Air Navigation Services (ANS) entity as a subsidiary to Airports Authority of India (AAI). Various expert committees like Naresh Chandra Committee, Ajay Prasad Committee etc. have recommended the establishment of an independent ANS entity. Accordingly, AAI had engaged the Consultant M/s KPMG to conduct a pre-feasibility study to analyze options and develop a road-map for the corporatization of ANS. AAI Board has passed a resolution to constitute ANS Corporation as an independent entity.

(c): The airport-wise details indicating the date of commissioning of the Air Navigation equipments are at Annexure-A. The life span of these air navigation equipments is generally 12 years.

(d): AAI has formulated an Air Navigation Equipment Replacement Plan for the next five years (2014-18).

Annexure-A

Station	Eqpt	Date of Installation/Commissioning
	DME (GP)	28-Feb-03
	GP	31-Aug-02
Agartala	LOC	17-Sep-03
	VOR	25-Nov-95
	DME	25-Nov-95
	NDB	8-Sep-04
Agatti	DME	1-Feb-92
	NOB	19-Dec-04
	LOC	10-Nov-12
	DME (GP)	10-Nov-17
Agra	GP	11-Nov-12
	DME	22-Mar-99
	VOR	22-Mar-99
	DME (GP)	3-May-08
	La	1-Jun-05
	OM	10-Aug-03
Ahmedabad	GP	2-Apr-01
	DME	11-Mar-91
	LOC	27-feb-02
	VOR	12-Apr-07
Aligarh	DME	15-Mar-97
	VOR	15-Mar-97
Allahabad	VOR	7-Feb-12
	DME	7-Feb-12
	LOC	24-Jul-01
	DME (GP)	27-Sep-07
Amritsar	GP	24-Jul-01

DME 9-Feb-12
NOB 1-Sep-04
VOR 9-Feb-12
GP 9-Jan-97
DME (GP) 9-Jan-97
Aurangabad DME 11-Feb-10
LOC 9-Oct-97
NDB 1-Jan-05
VOR 11-Feb-10
Bagdogra DME 24-Jan-96
VOR 31-Dec-98
VOR 29-May-08
DME 29-May-08
LOC 29-May-08
GP 19-May-08
Bangalore (BIAL) DME (GP) 29-May-08
LOC 29-May-08
GP 29-May-08
DME (GP) 29-May-08
VOR 28-Aug-08
DME 28-Aug-08
DME (GP) 28-Jun-95
I GP 29-Jun-95
Bangalore (HAL) DME 19-Jun-94
LOC 28-Jun-95
VOR 7-May-93
Barapani VOR 3-May-05
DME 3-May-05
Belgaum DME 19-Apr-03
VOR 14-Mar-96
Bellary DME 1-Jun-94
VOR 3-Jun-04
Bhavnagar DME (GP) 15-Dec-06
Station Eqpt Date of
Installation/Commissioning
GP 15-Dec-06
Bhavnagar LOC 15-Dec-06
DME 1-Jan-91
VOR 15-Jul-98
DME (GP) 7-Mar-08
OM 28-Jun-02
LO 31-May-04
Bhopal
GP 17-Jun-01
DME 30-Jun-00
LOC 17-Jun-01
VOR 26-May-96
GP 17-Jan-03
DME (GP) 26-Aug-96
Bhubneshwar DME 7-Jan-03
LOC 17-Jan-03
NDB 5-Aug-05
VOR 4-Dec-95
Bhuj DME 14-Mar-97
VOR 14-Mar-97
Bhuntar NDB 14-Aug-04
VOR-1 27-Jul-97
DME-1 27-Jul-97
Bikaner VOR-2 28-Jul-97
DME-2 28-Jul-97
GP 12-Jun-96
DME (GP) 13-Jun-96
LOC 11-Jun-96
LOC 10-Feb-11
Calicut GP 10-Feb-11
DME (GP) 10-Feb-11
DME 14-Cct-08
NDB 18-Jun-04
VOR 23-Feb-96
LOC 5-Mar-11
GP 5-Mar-11
Chandigarh DME (GP) 5-Mar-11
DME 25-Feb-99
VOR 25-Feb-99
LOC 6-May-93
DME (GP) 22-Jul-97
OM 16-Jan-69
LO 27-Aug-03
ML 27-Aug-03
Chennai LOC 31-Aug-06
GP 31-Aug-06
DME (GP) 31-Aug-06
VOR 20-Sep-12
DME 20-Sep-12
GP 16-Sep-93

Chillarki	DME	30-Mar-95
VOR	30-Mar-95	
GP	9-Nov-08	
DME (GP)	10-Jun-99	
OM	10-Jun-99	
LO	15-May-02	
Cochin	NDB	15-May-02
LOC	9-Nov-08	
VOR-I	30-Apr-12	
DME-I	10-Jun-99	
DME-II	19-Jun-02	
VOR-II	15-Feb-10	
Coimbatore	LOC	23-May-96
Station	Eqpt	Date of
		Installation/Commisioning
	DME (GP)	23-May-96
	GP	23-May-96
Coimbatore	DME	14-May-95
NDB	13-Jul-04	
VOR	26-Jun-96	
Coach Behar	NDB	10-Oct-12
LOC	20-Oct-11	
GP	20-Oct-11	
Dehradun	DME (GP)	20-Oct-11
VOR	21-Dec-09	
DME	21-Dec-09	
LOC	16-Oct-10	
LO	26-Aug-02	
OM	1-Dec-94	
DME (GP)	14-Feb-98	
GP	16-Oct-10	
LOC	13-May-10	
GP	13-May-10	
OME (GP)	13-May-10	
GP	13-Jan-11	
LOC	13-Jan-11	
OME (GP)	13-Jan-11	
LOC	25-Sep-08	
Delhi	GP	25-Sep-08
DME (GP)	25-Sep-08	
LOC	25-Sep-08	
GP	25-Sep-08	
DME (GP)	25-Sep-05	
VOR	28-Aug-05	
OME	28-Aug-08	
GP	22-Sep-11	
LOC	22-Sep-11	
DME (GP)	22-Sep-11	
DME	4-Jun-92	
NDB	7-Apr-04	
NDB	1-Jan-94	
VOR	9-Jun-92	
LOC	6-Sep-02	
DME (GP)	20-Jan-03	
Dibrugarh	DME	14-Feb-96
GP	6-Sep-02	
NDB	4-Sep-04	
VOR	9-Mar-05	
DME (GP)	15-Jan-07	
LOC	15-Jan-07	
Dimapur	GP	15-Jan-07
DME	30-Dec-91	
NDB	9-Sep-04	
VOR	27-Sep-94	
Diu	NDB	13-Dec-04
Gaggal	NDB	1-Sep-02
LOC	26-Dec-08	
GP	26-Dec-08	
Gava	DME (GP)	26-Dec-08
DME	28-Oct-96	
VOR	26-Feb-96	
Goa	DME	3-Jul-96
VOR	20-Aug-98	
OME	7-Feb-08	
VOR	7-Feb-08	
Gondia	LOC	6-Jun-11
GP	6-Jun-11	
NDB	4-Feb-06	
DME (GP)	6-Jun-11	
Station	Eqpt	Date of
		Installation/Commisioning
Gulbarga	DME	17-Aug-9
VOR	3-Sep-02	
LOC	17-Apr-00	
OM	14-Mar-03	

LO	14-Mar-03	
Guwahati	DME (GP)	27-May-08
OME		27-May-08
GP		13-Nov-99
NDB		6-Sep04
VOR		22-Dec-05
Gwalior	DME	16-Jun-97
VOR		16-Jun-97
NDB		1-Jan-90
Hubli	VOR	20-Sep-12
DME		20-Sep-12
LOC		9-May-94
OM		12-Nov-03
LO		1-Apr-04
Hyderabad	DME (GP)	1-May-04
DME		19-Jul-04
GP		9-May-94
VOR		29-Sep-05
GP		28-Mar-01
DME (GP)		11-May-08
Imphal	DME	30-Nov-91
LOC		28-Mar-01
NDB		19-Jan-05
VOR		1-Mar-98
LOC		11-Nov-94
OME		9-Mar-12
Indore	VOR	9-Mar-12
DME (GP)		11-Nov-94
GP		11-Nov-94
NDB		30-Nov-04
Jabalpur	DME (GP)	5-Mar-01
VOR		5-Mar-01
LOC		21-Dec-99
LO		27-Nov-02
Jaipur	DME (GP)	5-Dec-04
DME		17-Jul-03
GP		21-Dec-99
VOR		5-May-11
Jalalabad	DME	27-Mar-97
VOR		27-Mar-97
Jalgaon	VOR	16-Mar-12
OME		16-Mar-12
LOC		22-Nov-03
DME (GP)		17-Aug-07
Jammu	DME	6-Jul-95
GP		17-Aug-07
VOR		11-Nov-00
Jamnagar	DME	6-Jan-02
VOR		6-Jan-02
Jamshedpur	DME	26-Feb-92
VOR		14-Mar-05
Jharsuguda	NDB	1-Jan-90
Jodhpur	DME	31-Oct-95
VOR		31-Dec-03
Jorhat	DME	3-Apr-97
VOR		1-Oct-96
Kanchipuram	DME	24-Aug-94
VOR		28-Aug-03
Kandla	NDB	1-Jan-91
Kanpur	VOR	17-Jul-08
Station	Eqpt	Date of
		Installation/Commisioning
Kanpur	DME	17-Jul-08
LOC		11-Apr-11
GP		11-Apr-11
DME (GP)		11-Apr-11
VOR		1-Jan-12
Katihar	DME	1-Jan-12
Keshod	NDB	27-Jan-08
GP		1-Dec-05
VOR		20-Sep-12
Khajuraho	DME (GP)	23-Nov-07
DME		20-Sep-12
LOC		1-Dec-05
NDB		6-Jul-04
Khammam	NDB	22-Sep-04
Kolhapur	NDB	1-Aug-90
GP		27-Mar-09
LO		19-Apr-02
OM		17-Aug-02
DME (GP)		13-May-10
LOC		27-Mar-09
LOC		4-Apr-00
LO		19-Apr-02
Kolkata	OM	4-Oct-03

GP		4-Apr-00
DME (GP)		13-Jul-92
DME (GP)		10-Jan-13
LOC		10-Jan-13
GP		10-Jan-13
VOR		18-Nov-10
DME		18-Nov-10
Kota	NDB	10-Aug-04
Leh	DME	19-Jun-03
VOR		19-Jun-03
LOC		2-Aug-11
GP		2-Aug-11
Lengui	DME	2-Aug-11
DME		6-Aug-98
NDB		15-Nov-02
VOR		6-Aug-98
OME		2-Oct-02
Lilabari	NDB	7-Sep-04
VOR		28-Sep-02
LOC		22-Nov-01
VOR		14-Nov-13
Lucknow	DME	14-Nov-13
DME (GP)		27-Oct-04
GP		22-Nov-01
VOR		15-Nov-12
Ludhiana	DME	15-Nov-12
NDB		12-Sep-04
LOC		12-Feb-09
GP		12-Feb-09
Madurai	DME (GP)	12-Feb-09
DME		28-Aug-91
NDB		9-Oct-04
VOR		6-Aug-03
GP		31-Jan-98
DME (GP)		31-Jan-98
Mangalore	DME	7-Jul-91
LOC		31-Jan-98
NDB		18-Aug-04
VOR		12-Dec-03
Mumbai	GP	29-Apr-06
DME (GP)		29-Apr-06
Station	Eqpt	Date of
		Installation/Commisioning
LOC		29-Apr-06
OM		1-Dec-97
LO		11-Feb-03
DME (GP)		15-Apr-06
LOC		15-Apr-06
Mumbai	GP	15-Apr-06
DME		26-Apr-06
LOC		5-May-06
GP		5-May-06
DME (GP)		5-May-06
VOR		26-Apr-06
Mysore	VOR	20-Oct-11
DME		20-Oct-11
LOC		1-Feb-93
GP		1-Feb-93
DME (GP)		27-Sep-07
Nagpur	LO	1-Jul-04
OM		1-Apr-04
DME		29-May-97
VOR		22-May-97
Nanded	VOR	15-Jul-09
DME		15-Jul-09
Pantnagar	NDB	28-Feb-79
GP		31-Oct-02
DME (GP)		31-Oct-02
Patna	DME	9-Nov-9S
LOC		31-Oct-02
VOR		9-Nov-95
Pondicherry	NDB	1-Jan-94
VOR		22-Feb-12
Porbandar	NDB	1-Jun-05
DME		22-Feb-12
DME (GP)		7-Jun-07
Port Blair	LOC	7-Jun-07
DME		22-Dec-02
VOR		23-Dec-02
Pratapgarh	DME	27-May-94
VOR		11-Dec-91
Pune	DME	25-Nov-01
VOR		25-Nov-01
GP		28-Sep-06
DME (GP)		28-Sep-06

Raipur	DME	10-Jun-96
LOC	28-Sep-06	
VOR	24-Nov-08	
VOR	20-Sep-12	
Rajamundhry	DME	20-Sep-12
NDB	30-Sep-90	
GP	14-Sep-95	
DME (GP)	14-Sep-95	
Rajkot	DME	27-May-97
LOC	14-Sep-95	
NDB	30-Nov-04	
VOR	27-May-97	
GP	25-Feb-03	
DME (GP)	4-Feb-94	
Ranchi	DME	16-Nov-09
LOC	25-Feb-03	
NDB	11-Mar-05	
VOR	26-Aug-05	
Sakras	DME	26-Mar-97
Station	Eqpt	Date of
Installation/Commissioning		
Sakras	VOR	25-Mar-97
Salem	NDB	1-May-02
Sampla	DME	27-Mar-97
VOR		27-Mar-97
VOR	15-Mar-08	
LOC		22-Mar-08
GP		22-Mar-08
Shamshabad	DME (GP)	22-Mar-08
(HIAL)	LOC	22-Mar-08
GP		22-Mar-08
DME (GP)		22-Mar-08
DME		15-Mar-08
Shimla	NDB	24-Apr-04
Sikandrabad	DME	9-Jun-95
VOR		9-Jun-95
LOC		12-Apr-10
GP		12-Apr-10
Silchar	DME (GP)	12-Apr-10
DME		25-Mar-95
VOR		5-Dec-98
Songarh	NDB	7-Oct-04
LOC		4-Feb-11
GP		4-Feb-11
Srinagar	DME (GP)	4-Feb-11
DME		10-Jun-98
VOR		10-Jul-98
VOR		19-Apr-07
DME		29-Apr-07
Surat	LOC	14-Jan-10
GP		14-Jan-10
DME		14-Jan-10
NDB		4-Mar-05
Tezpur	DME	14-Apr-99
VOR		14-Apr-99
Tezu	NDB	11-Jan-12
LOC		31-May-12
GP		31-May-12
Tirupati	DME (GP)	31-May-12
DME		10-Feb-96
VOR		28-Dec-06
GP		5-Aug-03
DME (GP)		1-Mar-94
DME		7-Apr-91
Trichy	LOC	5-Aug-03
NDB		27-Nov-08
VOR		25-Mar-03
LOC		17-Jun-95
LO		16-Jun-02
Trivendrum	DME (GP)	9-Oct-97
DME		1-May-03
GP		25-Dec-95
VOR		15-May-96
Tura	NDB	N.A
Tuticorin	NDB	1-Jan-90
GP		7-Nov-01
DME (GP)		7-Nov-01
Udaipur	DME	27-Jul-95
LOC		7-Nov-01
NDB		14-Aug-04
VOR		29-Sep-03
LOC		11-May-03
Vadodara	DME (GP)	18-Jul-96

Station	Eqpt	Date of Installation/Commissioning
	DME	4-Mar-96
	NDB	13-Dec-04
vadodara	vos	30-Sep-04
	LOC	11-Mar-04
	DME (GP)	25-dec-08
Varanasi	DME	5-Mar-04
	GP	11-Mar-04
	NDB	16-May-05
	VOR	1-Feb-96
	NDB	16-May-05
	VOR	1-feb-96
	LOC	2-Jun-12
	GP	2-Jun-12
	DME (GP)	2-Jun-12
Vijayawada	VOR	26-Aug-05
	NDB	19-Oct-04
Vikarabad	NDB	7-Aug-04
	LOC	30-Aug-07
	VOR	30-Aug-07
	GP	30-Aug-07
Vizag	DME (GP)	30-Aug-07
	OME	15-Sep-99
	NDB	1-Sep-04
	VOR	15-Jan-05

NDB: Non Directional Beacon
 VOR: VHF Omni Directional Range
 DME: Distance Measuring Equipment
 GP: Glide Path
 toe. Localizer
 MO: Outer Marker
 LO. Locator Outer