



Production of High Quality Disease Free Frozen Semen from HGM bulls

S Gorani

Presentation Outline



Objective

Status

Salient Features

Approval Status of SSS Projects

Financial progress

Major Issues

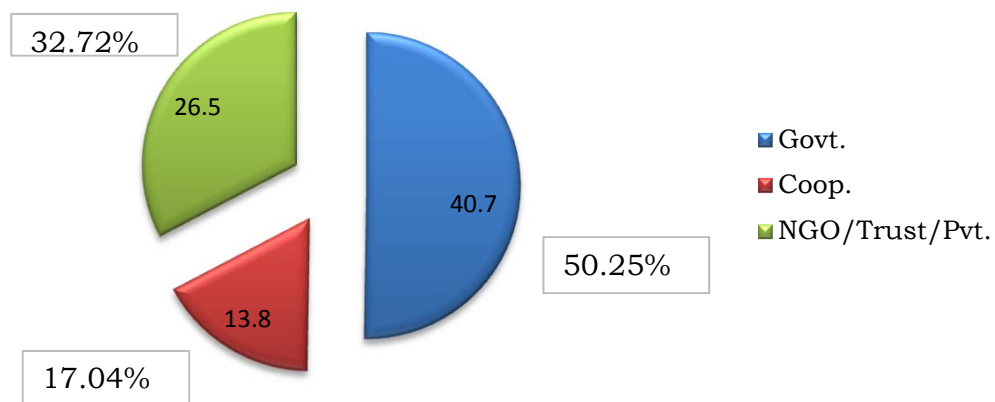
Main Objective

- Strengthening of “A” and “B” graded semen stations in terms of production capacity and bio-security to produce 100 million high quality, disease free frozen semen doses by 2016-17 from HGM bulls produced through NDP-I programmes

Agency wise Semen production

Agency	No. of SS
Govt.	37
Coop.	9
NGO/Trust/Pvt.	5
Total	51

**Semen Production (in millions)
2012-13**

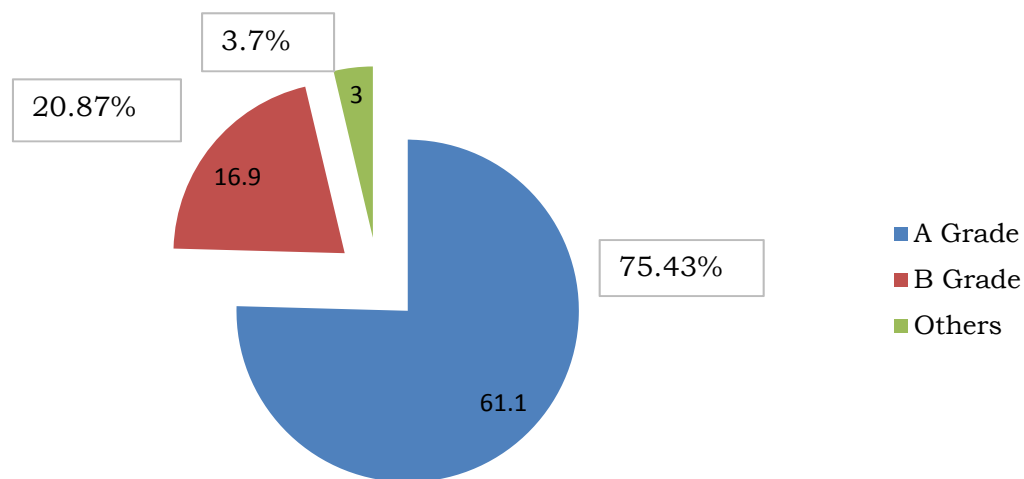


Grade wise Semen Prodn. 2012-13



Year	2007	2011	2013
Grade A	12	20	30
Grade B	15	17	14
Grade C	7	3	0
Not Graded	10	7	5
Not evaluated	2		2
TOTAL SS	56	54	51

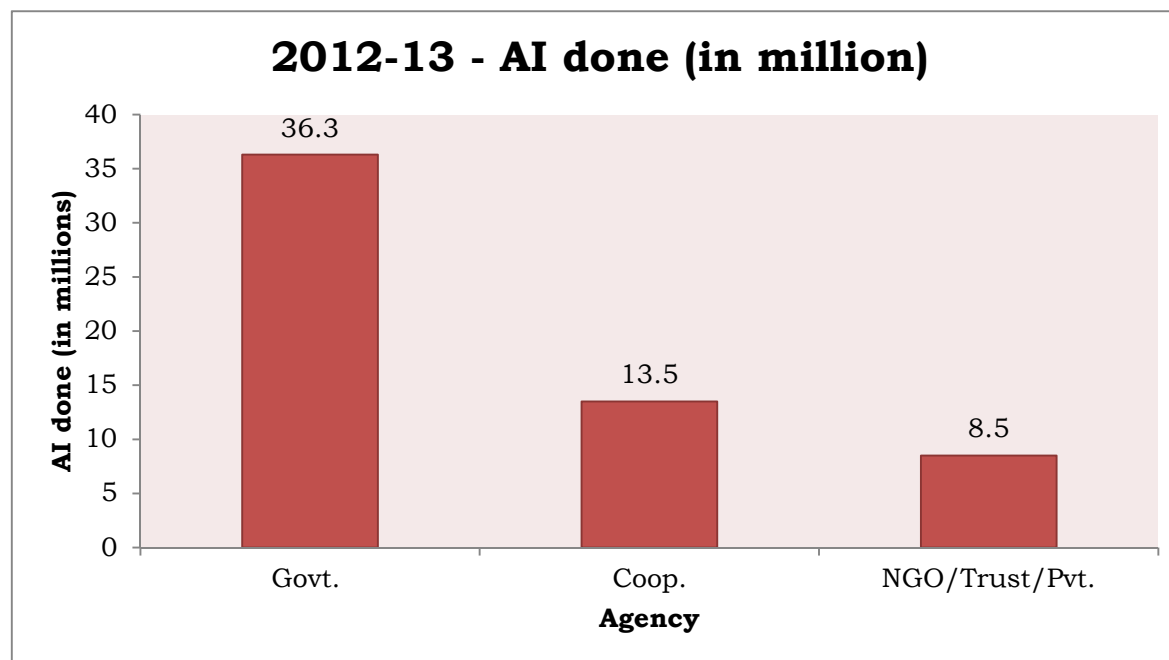
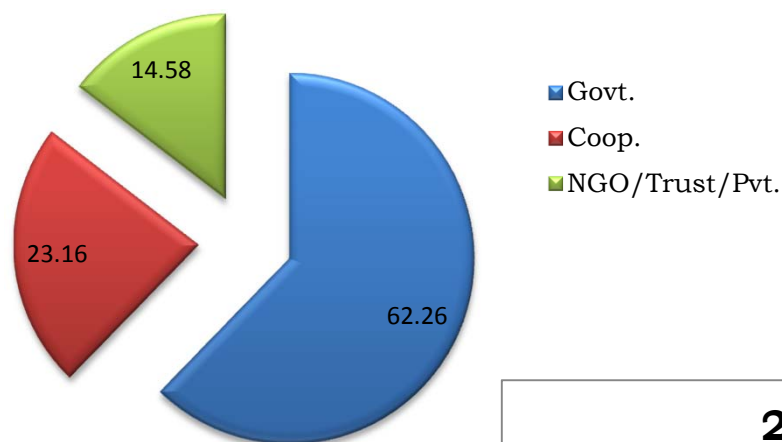
Semen prodn. (in millions) 2012-13



AI Performed: 2012-13



Agency wise % share



**AI performed by freelancers not included*

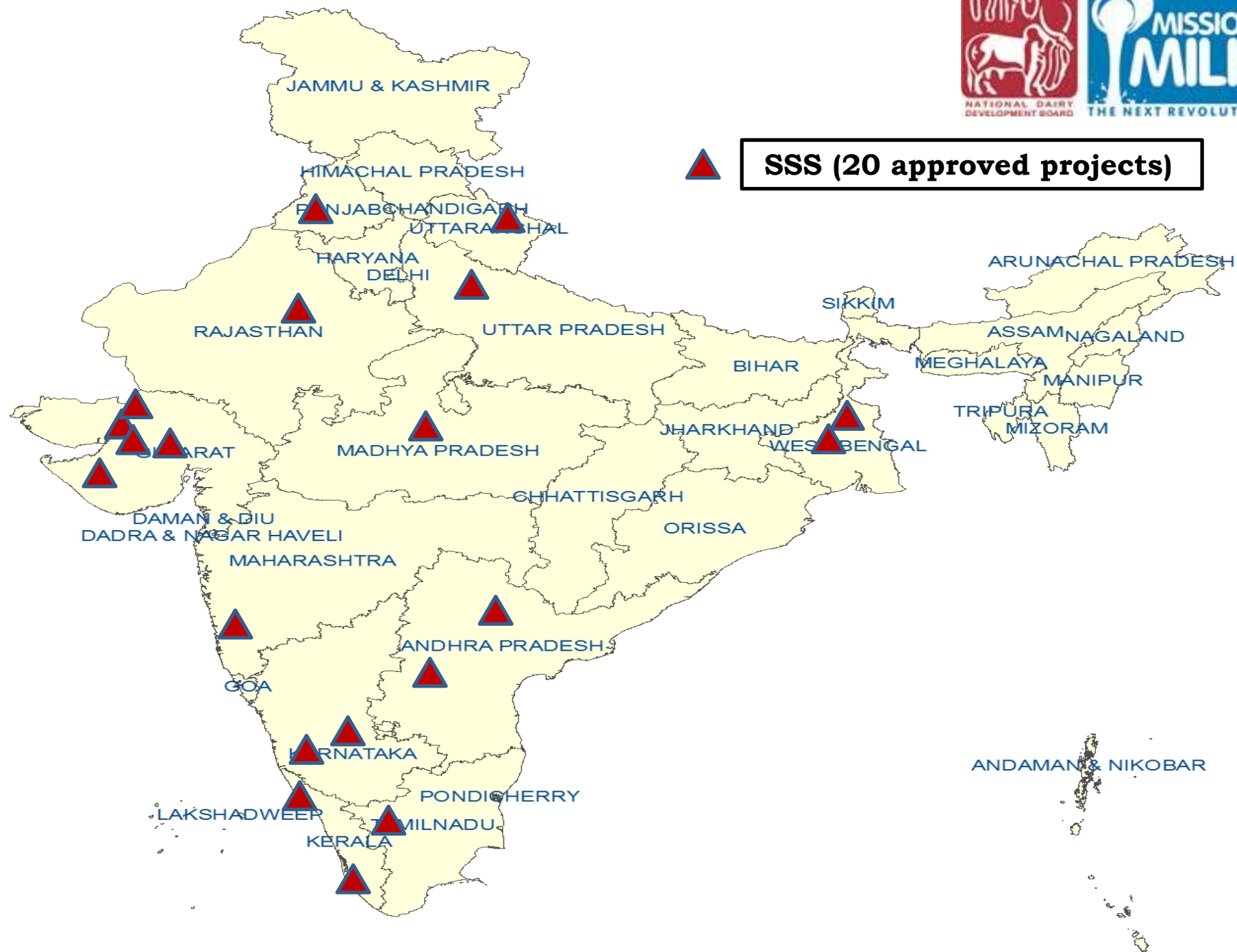
Demand & Availability of Semen Doses

Particulars	2009-10	2012-13 (actual)	2016-17	2021-22
Breedable animals under AI	20%	24%	35%	50%
No. of AIs (million)*	48	58	84	120
Production of semen doses by A & B grade SSs(million)	65.8	77	100	140

**AI performed by freelancers not included*



SSS (20 approved projects)



Salient features of SSS Projects

Funding for strengthening [Civil structures](#), biosecurity, [lab equipment](#), [farm machinery](#), ICT infrastructure, manpower training

Exclusive manpower for project implementation

Regular disease testing and strict biosecurity measures to ensure production of disease free semen

Ring Vaccination in 10 km radius of semen station for control of diseases

Monitoring – existing SSMS (MIS) to be suitably upgraded to evolve a centralized database system on SS monitoring

SSS Projects: Approved under NDP I



Sr. No.	State	Semen Station	Approval date	Semen Production in the Year of Approval (in mn)	Targeted Semen Production (in mn)	Total Outlay (in Lakh Rs.)
1	Gujarat	SAG, Bidaj	12.10.2012	11.21	18.62	3476.01
2		Jagudan, Mehsana	11.02.2013	1.56	2.45	687.77
3		Ode, ARDA	06.12.2013	2.50	3.50	953.58
4		Patan, GLDB	25.02.2014	1.41	2.56	545.95
5		Dama, Banas	14.06.2014	1.03	1.80	818.79
6	Kerala	Mattupatty, KLDB	02.08.2013	1.60	2.10	544.89
7		Dhoni, KLDB	02.08.2013	0.66	2.10	633.77
8	Karnataka	Nandini , KMF	18.12.2012	3.54	4.25	678.20
9		CFSPTI, GoI	11.03.2013	1.30	2.20	1026.34
10	Maharashtra	BAIF, Pune	25.02.2014	8.42	12.01	3328.43

SSS Projects: Approved under NDP I



Sr. No.	State/EIA	Semen Station	Approval date	Semen Production in the Year of Approval (in mn)	Targeted Semen Production (in mn)	Total Outlay (in Lakh Rs.)
11	Andhra Pradesh (APLDA)	Banavasi	11.02.2013	1.65	2.54	652.17
12		Karimnagar	11.03.2013	0.97	2.80	994.07
13	West Bengal (PBGSBS)	Haringhata	11.02.2013	1.10	2.26	612.86
14		Salboni	11.03.2013	1.06	2.31	463.39
15	Uttar Pradesh (ABRO)	ABC, Salon	16.11.2012	6.27	9.14	1865.10
16	Punjab (PLDB)	Nabha	18.12.2012	2.80	4.99	1420.74
17	Tamil Nadu (TNLDA)	DLF, Ooty	16.11.2012	1.33	2.77	645.89
18	Madhya Pradesh (MPSL&PDC)	Bhadbhada, Bhopal	02.08.2013	0.82	2.25	587.57
19	Uttarakhand (ULDB)	Rishikesh	02.08.2013	2.25	3.02	710.76
20	Rajasthan (RCDF)	Bassi	25.02.2014	2.64	3.49	1356.93
	TOTAL			54.19	87.16	22003.21

Financial Progress of SSS Projects



Sr No	State	Semen Station	Advance taken till date	Fund Utilised till date	% Utilization
1	UP	ABC Salon	990.4	647.1	65.3
2	AP	Banavasi	185.0	120.7	65.2
3	Telangana	Karimnagar	300.0	156.0	52.0
4	MP	Bhopal	172.0	76.7	44.6
5	Karnataka	Nandini	235.0	102.0	43.4
6	Gujarat	Jagudan	367.0	131.0	35.7
7	Uttarakhand	Rishikesh	175.2	61.7	35.2
8	TN	DLF Ooty	259.8	89.0	34.3
9	Gujarat	SAG Bidaj	1275.0	409.9	32.2
10	Maharashtra	BAIF	450.0	138.4	30.8
11	Kerala	Dhoni	195.0	50.2	25.7
12	Gujarat	Ode	130.0	27.6	21.2
13	WB	Haringhata	367.0	61.3	16.7
14	WB	Salboni	305.0	27.2	8.9
15	Punjab	Nabha	540.0	20.5	3.8
16	Kerala	Mattupatty	183.0	0.3	0.2
17	Karnataka	CFSP&TI	263.0	0.0	0.0
18	Gujarat	Patan	0.0	0.0	0.0
19	Rajasthan	Bassi	300.0	0.0	0.0
20	Gujarat	Dama	0.0	0.0	0.0

Training and Capacity Building

- At present, KLDB is the only training centre which imparts training to semen station personnel
- NDDB have made arrangements for conducting these trainings at AAU, NDRI and MVC

Major Issues



Exclusive manpower & uninterrupted tenure

Procedural delays in execution of civil work and procurement of equipment

Delegation of Financial Power to In-charge of the semen station

Convergence of Central and State Govt. Schemes

- Increase the coverage of AI service delivery
- Use semen produced from only A/ B graded semen stations in the AI programmes
- Implement vaccination and disease control programmes in semen production area

Availability of semen of breeds as per the breeding policy of the state to ensure effective implementation of the policy

Annual evaluation of semen stations by exclusive CMU members instead of once in two years

To conclude.....

By the end of NDP-I, all A and B graded Semen Stations will be strengthened to produce 100 million high quality, disease free semen doses from HGM bulls

Thank You

Farm Machinery



Fodder Harvester

Farm Machinery



Baler

Farm Machinery



Slurry Spreader

Farm Machinery



Reaper binder

Farm Machinery



Uniform distribution of slurry through tank in field

Farm Machinery



Swather/ Liner

[Exit](#)

Lab Equipment



Automatic Filling & Sealing Machine

Lab Equipment



Cold Handling Unit

Lab Equipment



**Bulk
semen
storage
container**

Exit

Civil Works



Construction of Bull Shed

Biogas Plant

