

**Title: - Journey to ‘A’ Grade Certified Central Semen Station: CSS, Bhopal**

**Category: - Animal Husbandry- Infrastructure development to propagate semen.**

**Challenges: -**

CSS, Bhopal was established in the year 1964-65 with pure breed Jersey & cross breed (Jersey cross Sahiwal) F1 bulls to cater the cross breeding needs of the State. Semen production during 2001-02 was 5 lakh doses whereas the breedable females available in the State were around 110 lakhs with mostly indigenous and non-descript animals. The preferred semen was that of pure-bred Indian breeds.



Central Semen Station, Bhopal since 1964

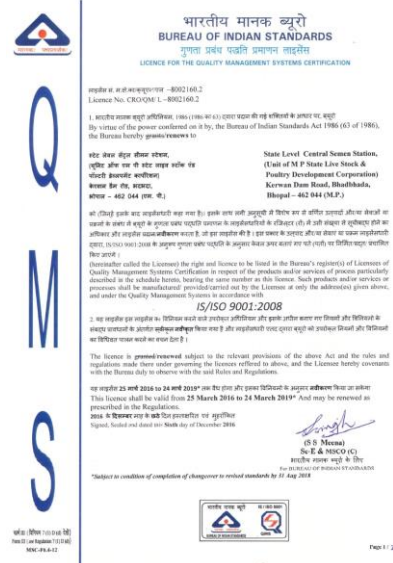
The station was run by the Animal Husbandry Department and also worked as demonstration centre for the field staff that came to Bhopal for AI Training.

In the year 2000-01 the Department started the NPCBB (National Programme on Cattle & Buffalo Breeding) funded by the government of India (GoI). It was then that the Madhya Pradesh Livestock & Poultry Development Corporation was given the responsibility of State Implementing Agency for the programme & the CSS was transferred to MPSLPDC. At that time there were 47 bulls of 7 breeds – 2 exotic (Jersey & HF), 2 cross breeds (of these exotic breeds), 2 indigenous (Sahiwal & Malvi) and one of the buffalo (Murrah).

## Key results/insight/interesting fact: -

Initially the focus of the corporation (MPLPDC) was to streamline the working of CSS. Hence, though in the year 2009-10, GoI gave a 'B' certificate to the CSS, Bhopal, it got ISO 9001:2008 Certificate for production storage and supply of Frozen Semen. So the next target was to improve the level as per GoI MSP and SoP.

In the year 2014-15 a proposal was sent to the State Government of Madhya Pradesh under the Rashtriya Krishi Vikas Yojna (RKVY) for the strengthening of CSS with an amount of 151 lakh rupees. The proposal was approved and the CSS got transformed radically. There were 10 breeds of cattle and buffalo available at the on set – 2 exotic (Jersey



Bull sheds at CSS, Bhopal renovated under RKVY

& HF), 2 Cross breed (of these exotic breeds), 2 buffalo (Murrah & Bhadavari) and 4 indigenous (Sahiwal, Gir, Nimari & Malvi) and the production was around 18.34 lakh semen doses.

## Impact-

Under the RKVY 6 more breeds were inducted to the herd – 1 buffalo (Jafrabadi) and 3 indigenous (Kenkatha, Hariana, Tharparkar) taking the tally of total available breeds to 14. The production went to the whooping height of 28 lakh semen doses. The Central Semen Station (CSS) at Bhadbada, Bhopal now-a-day needs no introduction. It is now an ISO:9001-2015 certified, BIS marked and on

the basis of Central Monitoring Unit (CMU) 'A' Grade certified by Govt. of India, Institute. And Semen is being supplied not only to Madhya Pradesh but to seven



Semen lab renovated under RKVY

other states including Sabarmati, Ashram Goushala, Bidaj, Gujarat from where the state used to procure semen previously.

Recently CSS, Bhopal has been selected for production of Sex Sorted Semen, the privilege given to only ten of the 'A' grade semen stations of the country.

**Lessons Learned: -**

The State of Madhya Pradesh ranked 7<sup>th</sup> in milk production until 2011-12, improved to 4<sup>th</sup> position in 2014-15. This happened largely due to expansion of AI facilities and making available semen of other indigenous breeds too. But the State has to make provision for an unforeseen situation where there happens to be an outbreak of some genetically communicable disease in the bulls at CSS, Bhopal. Another similar facility is coming up in District Datia, more than 400 km away from the existing facility.

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