



SIRE

DIRECTORY
2024



Coordinating Unit

**Network Project on
Buffalo Improvement**

**Central Institute for
Research on Buffaloes**

Hisar - 125 001,
Haryana, India

NPBI Coordinating Unit: ICAR-CIRB, Hisar





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Bulls Produced under Network Project on Buffalo Improvement

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EXECUTIVE SUMMARY

All India Coordinated Research Project on buffaloes was initiated in the year 1970-71 for genetic evaluation of large and medium size buffaloes which was later on made specific on two important breeds viz. Murrah and Surti in the coordinated program. The objective of the project was to improve the milk production of buffaloes through assessment of genetic merit of Sires. With the establishment of Central Institute for Research on Buffalo (CIRB) at Hisar in 1985 through the transfer of erstwhile progeny testing farm, Haryana, the AICRP technical program was modified to the effect that NDRI, Karnal and CIRB, Hisar were to maintain Murrah. This program remained in operation till April 1993 when the AICRP was later continued into Network Mode and is presently known as Network Project on Buffalo Improvement. Presently the project undertakes the progeny testing program with institute herds of Murrah buffalo at CIRB, Hisar, Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana, NDRI, Karnal, Indian Veterinary Research Institute (IVRI), Izatnagar, Lala Lajpat Rai University of Veterinary & Animal Sciences (LUVAS), Hisar, and ICAR Research Complex for eastern region, Patna. Elite herds of Jaffrabadi, Surti, Bhadawari and Nili-Ravi breeds of buffaloes have been established in their respective breeding tracts. The efforts made by scientific manpower through this venture are able to standardize testing methodology and germplasm evaluation for superior bull production of important breeds of buffaloes. The infrastructure has been created which is capable to generate germplasm in the form of bulls and frozen semen at some of the testing centers. To increase the number of recordings for better accuracy of sire evaluation, field progeny testing program at farmer's doorstep was initiated in the year 2001. About 16953 artificial inseminations were carried out in 2022-23 at farmer's door in the village to produce daughters. The milk yields of daughters are being recorded for use in sire evaluation.

Around 1060 breedable buffaloes are being maintained at institutional Murrah centres for production of high genetic merit male and female calves to be used for production of future sires. As per technical program for Murrah breed, a set of up to 18 pedigreed bulls is selected in each set and it is used for AI in the associated herds (1600 AIs per annum) and field buffaloes (approximately 20000 AIs per annum) for test mating over 18 months' duration. From 1st July 2023 to 31st Dec., 2024 semen of XXI set was used at all Murrah centres. There were 14 superior bulls in the XXI set (5 bulls from CIRB Hisar, 3 bulls from GADVASU Ludhiana, 2 bull from LUVAS, Hisar and 3 bull from NDRI Karnal 1 bull from IVRI, Izatnagar). So far, 289 superior bulls have been test mated in 21 sets.

Data of 762 daughters born from the 16th set of bulls which completed 1st lactation was compiled and bulls were evaluated. Bull no. M-29 from CIRB Hisar, 1053 from LUVAS Hisar and 2383 from GADVASU Ludhiana ranked 1st, 2nd and 3rd with breeding value 2579 kg, 2567 kg and 2547 kg, respectively. The percent superiority by BLUP Model was 3.82, 3.35 and 2.53, respectively. Nili-Ravi and Bhadawari breed centres are functioning as conservation and improvement units and Jaffrabadi and Surti breed centre are concentrating on field progeny testing along with maintaining the elite herd for bull production and testing. A breedable herd of 661 (Nili-Ravi-318, Jaffarabadi-201, Surti-79 and Bhadawari-63) is being maintained for the above four breeds.

INTRODUCTION

In 1970-71, the Indian Council of Agricultural Research (ICAR) initiated systematic research on buffalo breeding through the All India Coordinated Research Project (AICRP) on buffaloes. Prior to this, the Progeny Testing Bull Farm at the Government Livestock Farm in Hisar had been conducting progeny testing in Murrah buffaloes since 1962. This farm was transferred from the Animal Husbandry Department of Haryana to the ICAR in 1985, leading to the establishment of the Central Institute for Research on Buffaloes.

Initially, the AICRP focused on the genetic evaluation of large and medium-sized buffaloes, later narrowing down to the Murrah and Surti, two significant breeds in India. The primary goal was to test sires to produce proven bulls that could enhance milk production. These efforts standardized testing methodologies and germplasm evaluation, allowing scientists to employ sire evaluation methods for producing superior bulls in important buffalo breeds. The project also developed infrastructure to generate germplasm, including tested bulls and high-quality frozen semen.

During the 8th five-year plan, the project expanded to produce a large number of genetically superior bulls based on pedigree and progeny performance. Various centers collaborated to ensure sustainable maintenance and large-scale production of improved germplasm for buffalo improvement programs, fostering institutional linkages. In the 9th plan, the scope of the Network Project broadened to include performance evaluation and improvement of several key buffalo breeds across India, such as Jaffarabadi, Nili Ravi, Surti, Bhadawari, Pandharpuri, Godavari, and Swamp buffaloes. Field progeny testing units for Murrah buffaloes and a Health Monitoring & Semen Quality Testing Laboratory were also established, becoming operational in 2001. The project now continues with following centers operational and breeds being maintained at them.

PARTICIPATING CENTRES

Name/Location	Breed	From	To
Agricultural University based centres			
GADVASU, Ludhiana	Murrah	1993	Continuing
LUVAS, Hisar	Murrah	1993	Continuing
NDUAT, Faizabad	Murrah	2001	2011
KU, Junagarh	Jaffarabadi	2001	Continuing
RAJUVAS, Vallabhagar	Surti	2001	Continuing
MPKV, Kolhapur	Pandharpuri	2001	2018
SVVUV, Gudem	Godavari	2001	2012
AAU, Khanapara	Swamp	2001	2018
Field Unit GADAVASU	Murrah	2001	Continuing
Field Unit GADAVASU	Nili-Ravi	2017	Continuing
ICAR institute based centres			
IGFRI, Jhansi	Bhadawari	2001	Continuing
CIRB Sub-Campus, Nabha	Nilli-Ravi	2001	Continuing
Field Unit NDRI Karnal	Murrah	2001	Continuing
NDRI, Karnal	Murrah	1993	Continuing
CIRB, Hisar	Murrah	1993	Continuing
CCBF, Alamadi (TN)	Murrah	1993	2007
IVRI, Izatnagar	Murrah	1993	Continuing
ICAR-RER, Patna	Murrah	2014	Continuing

OBJECTIVES

1. To establish elite nucleus herds of important buffalo breeds for the production of genetically superior young bulls.
2. To evaluate sires through institutional / associated herd/field progeny testing.
3. To produce, test, propagate and conserve high genetic merit male germplasm Brief.

BREEDS COVERED UNDER NPBI



SURTI



BHADAWARI



NILI-RAVI



JAFFARABADI



MURRAH



MURRAH

Murrah – A breed whose name originated from its typical horn characteristics as described in local dialect of Haryana. A triple utility breed with milk, meat, and draft purpose, this breed has been globally famous in last few decades. Murrah with a beautiful jet black body is a walking milk ATM that has upheld the sustainability of rural livelihood, hence often described as “Black Gold”.



Technical Programme

- Establishment and maintenance of an elite herd of 300 Murrah buffalo breed with a herd strength of 2000 and 1200 breedable females.
- Selection and testing of minimum 15 bulls of Murrah in every 18 months' cycle.
- Production of minimum 10,000 frozen semen doses from each test bull.
- Maintain a minimum number of 8000 frozen semen doses until the particular SET gets evaluated.
- Evaluation and ranking of bulls on the basis of their progeny performance (first lactation) for selection of top 20-25% as proven bulls from each set.
- Application of proven bull's semen on elite buffaloes for the production of future sires and replacement heifers.
- Minimum weekly recording of milk yield of individual daughters/ buffaloes at institutional herd / monthly recording in field units over complete lactation(s) with wet average, herd average, percent buffaloes in milk, lactation length, dry period, TLMY, SLMY (305 days or less, up to minimum of 240 days / 1500 kg in Murrah and Peak yield, Milk yield per day of herd life (total milk produced from date of birth till completion of 4th or more lactation).
- Monthly testing of milk constituents (Fat%, SNF% and Protein %) and Somatic Cell Count, wherever feasible, at institutional herds.
- Recording of reproductive traits viz., AFC, Service period, Days open, Calving interval, Number of services per conception, Conception rate and Calving abnormalities.
- Health management including udder health, vaccination, de-worming, disease screening, mortality and periodic body weights records.

Test bulls used under Network Project

Since the inception of the Network Project in 1993, till date test mating of 20 sets of bulls have been completed, and 21st set is ongoing test mating up to December 2024. Brief summary of the duration, the number of bulls, average of the dam's best yield and highest dam's yield in each set is given below.

Set No.	Duration	Number of test Bulls	Av. 305 day or less dams best yield (kg)	Highest dam 305 day yield (kg)	305 day or less Herd Average (kg)/ Herd Size
1.	Jul 1993 to Dec 1994	11	3050	4114	1820/501
2.	Jan 1995 to Jun 1996	15	3002	3898	1920/487
3.	Jul 1996 to Dec 1997	15	2876	3275	2053/476

4.	Jan 1998 to Jun 1999	14	2999	3401	1973/457
5.	Jul 1999 to Dec 2000	15	3120	3898	1943/551
6.	Jan 2001 to Jun 2002	16	3055	3898	1972/562
7.	Jul 2002 to Dec 2003	12	2928	3544	2017/505
8.	Jan 2004 to Jun 2005	16	2928	3690	2056/511
9.	Jul 2005 to Dec 2006	15	2923	3336	2008/458
10.	Jan 2007 to Jun 2008	14	2829	3369	2130/509
11.	July 2008 to Dec 2009	14	2792	3051	2046/483
12.	Jan 2010 to Jun 2011	12	3362	5192	2115/384
13.	Jul 2011 to Dec 2012	8	3205	3805	2199/380
14.	Jan 2013 to Jun 2014	12	3451	4636	2356/288
15.	July 2014 to Dec 2015	15	3350	4636	2361/335
16.	Jan 2016 to Jun 2017	15	3762	4636	2349/280
17.	Jul 2017 to Dec 2018	15	3225	4668	2448/448
18.	Jan 2019 to Jun 2020	15	3284	3867	2586/333
19.	Jul 2020 to Dec 2021	12	3435	4069	2607/374
20.	Jan 2022 to Jun 2023	14	3658	4814	2625/367
21.	Jul 2023 to Dec 2024	14	3811	5170	2721/401

List of Murrah bulls (progeny tested 1-16th set) under Network Project on Buffalo Improvement

Set - I

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 days or less Av. yield (kg)	No. of daughters recorded	Sire Index	% Superiority over contemporary daughters	Rank
392	CIRB	06-04-1989	238	PQ-1	2594	2074	13	2118	22.8	I
3567	NDRI	07-09-1989	2408	2304	2877	1813	20	1852	6.4	II
896	CIRB	27-07-1987	911	644	3003	1796	26	1844	5.5	III
3108	NDRI	29-04-1986	2221	368	4114	1780	28	1822	4.4	IV
3098	NDRI	12-02-1986	360	1039	3164	1589	18	1547	-8.2	IX
3125	NDRI	14-04-1986	1091	2361	2828	1717	17	1717	0	V
3117	NDRI	24-05-1986	377	1039	2858	1652	20	1626	-4.2	VI
3206	NDRI	18-11-1986	2376	1992	3124	1605	8	1611	-6.8	VII
3294	NDRI	03-08-1987	1393	2288	3003	1592	11	1590	-7.7	VIII
3462	NDRI	08-11-1988	2372	2666	3072	1398	5	1619	-18.9	X
3127	NDRI	15-06-1986	1608	1039	2927	1499	14	1462	-13.6	XI

Set – II

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. yield (kg)	No. of daughters recorded	Sire Index	% Superiority over contemporary daughters	Rank
761	CIRB	20-11-1990	474	366	2878	1960.4	15	1987.4	9.37	I
93	CIRB	03-11-1990	-	PQ-1	22.0 Peak Yield	1874.1	16	1889.8	3.96	II
829	CIRB	04-07-1991	597	766	2626	1877.8	10	1876.3	3.53	III
759	CIRB	17-11-1990	208	963	2650	1860.7	14	1868.9	2.8	IV
3638	NDRI	26-04-1990	2929	2848	3278	1857.5	14	1865.2	2.41	V
3551	NDRI	09-08-1989	2762	2321	3898	1837.5	19	1845	1.49	VI
1253	PAU	27-10-1991	716	82	3348	1844	9	1841.6	1.29	VII
3750	NDRI	27-04-1991	2929	2880	3278	1747.9	14	1735	-4.22	VIII
1290	PAU	06-03-1992	448	883	2628	1711.1	14	1691.4	-6.92	IX
3689	NDRI	18-09-1990	2118	101	3424	1650.8	9	1665.4	-9.73	
3736	NDRI	08-02-1991	63	610	3264	1661.1	10	1665.1	-9.19	XI
1241	PAU	18-09-1991	576	82	2971	2015.4	5	1939	Not ranked - only 5 daughters	

Set – III

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. yield (kg)	No. of daughters recorded	Sire Index	% Superiority over contemporary daughters	Rank
1354	PAU	12-12-1992	762	989	3088	2072	6	1975	13.11	I
1153	CIRB	13-08-1993	701	896	2540	1934	13	1957	12.27	II
1061	CIRB	24-09-1992	769	896	2846	1902	12	1913	9.5	III
1165	CIRB	04-09-1993	597	11	2627	1912	9	1898	8.5	IV
3930	NDRI	10-09-1992	2984	610	2912	1845	11	1847	5.42	V
1131	CIRB	19-03-1993	80	896	2827	1943	3	1834	4.56	VI
3966	NDRI	24-11-1992	3117	3398	2820	1804	14	1812	3.31	VII
1023	CIRB	24-08-1992	241	592	2710	1795	11	1796	2.33	VIII
1315	PAU	04-08-1992	834	883	2808	1746	10	1747	-0.62	IX
3924	NDRI	30-08-1992	2948	82	3275	1711	23	1687	-4.41	XI
993	CIRB	14-04-1992	401	592	2976	1704	16	1689	-4.19	X
3865	NDRI	10-02-1992	3072	2748	2927	1599	9	1615	-8.55	XII
3949	NDRI	28-09-1992	3125	3396	2775	1624	15	1596	-9.83	XIII
1171	CIRB	13-09-1993	210	887	3007	1466	5	1582	-10.41	XIV
1084	CIRB	22-10-1992	210/90	398	3007	1562	15	1520	-14.4	XV

Set – IV

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. yield (kg)	No. of daughters recorded	Sire Index	% Superiority over contemporary daughters	Rank
1506	PAU	25-04-1995	-	988	3018	2065.1	12	2089	18.81	I
1451	PAU	10-08-1994	-	3567	3401	1951.4	10	1945	10.44	II
1437	PAU	04-04-1994	797	636	3127	1919.1	9	1904	8.11	III
1319	CIRB	27-01-1994	389	11	2538	1829.6	26	1884	6.99	IV
4188	NDRI	14-08-1994	3379	3567	3077	1844.6	8	1831	3.94	V
4124	NDRI	07-01-1994	3224	3117	3280	1763.9	14	1764	0.01	VI
1360	CIRB	07-05-1994	381	887	2537	1714.2	8	1721	-0.31	VII
4071	NDRI	05-09-1993	2835	888	3365	1692.1	15	1676	-4.83	VIII
1341	CIRB	20-03-1994	474	11	2878	1663.4	16	1636	-7.08	IX
1434	PAU	07-03-1994	1161	882	2640	1547.2	9	1567	-11	X
1446	PAU	10-06-1994	762	988	3088	1526.7	8	1564	-11.13	XI
1363	CIRB	23-09-1994	315	888	3031	1580.4	13	156	-11.53	XII
1538	CIRB	20-05-1995	597	82	2786	1553.4	11	1548	-12.04	XIII
4090	NDRI	20-10-1993	3364	82	3214	2116.7	6	1946	-	-

Set – V

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. yield (kg)	No. of daughters recorded	Sire Index	% Superiority over contemporary daughters	Rank
4393	NDRI	10-12-1995	2762	1908	3898	2143	13	393.4	22.29	I
4371	NDRI	23-10-1995	2984	988	3258	1971	22	263.5	14.9	II
4245	NDRI	22-11-1994	2948	988	3700	1920	13	141.9	7.96	III
4244	NDRI	16-11-1994	3296	888	3392	1917	13	138.6	7.77	IV
4395	NDRI	14-12-1995	3364	1908	3215	1885	12	98	5.48	V
1798	CIRB	20-11-1996	545/4.5	2583	2753	1876	8	68.9	3.85	VI
1641	CIRB	16-10-1995	545/4.5	2361	2753	1818	10	23.2	1.29	VII
1666	CIRB	12-12-1995	210/90	UK	3007	1789	13	-4.6	-0.26	VIII
1536	PAU	02-09-1995	P1161	888	3786	1774	11	-20.5	-1.14	IX
1555	PAU	06-11-1995	P1098	3462	2948	1706	6	-60.9	-3.39	X
1491	CIRB	16-01-1995	434/3.5	3567	3148	1696	8	-75.4	-4.19	XI
1573	PAU	18-03-1996	1017	1290	2866	1638	6	-107.9	-5.99	XII
1749	CIRB	22-09-1996	216/4.4	2321	2796	1247	4	-280.2	-15.5	XIII
1485	CIRB	01-01-1995	107/1.8	392	2523	1530	18	-354.8	-19.43	XIV
1524	PAU	07-08-1995	839	888	2749	1437	12	-384.5	-21.1	XV

Set – VI

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. yield (kg)	No. of daughters recorded	Sire Index	% Superiority over contemporary daughters	Rank
1153	HAU	29-09-1996	618	759	2675	2022.8	21	2121	13.31	I
4506	NDRI	31-10-1996	3527	3551	3512	1981.7	10	1972	9.29	II
1933	CIRB	01-10-1997	208	988	2650	1931.9	14	1953	6.92	III
4523	NDRI	26-12-1996	2762	3689	3898	1926.1	13	1941	6.52	IV
1922	CIRB	14-09-1997	388	988	2684	1746.2	18	1720	-4.49	V
1667	PAU	08-09-1997	1610	3862	2988	1726.6	10	1729	-5.39	VI
1135	HAU	15-08-1996	12	93	3250	1637.4	10	1642	-10.59	VII
4619	NDRI	26-08-1997	3403	3924	3073	2007.3	7	1964	10.88	-
1706	PAU	14-05-1998	3135	1619	3135	1524.3	3	1698	-16.45	-
4637	NDRI	12-09-1997	3521	2100	3437	1666	5	1726	-8.64	-
1836	CIRB	01-02-1997	224	1908	2744	1814.3	9	1815	-0.25	-
1717	PAU	02-09-1998	1530	1153	2775	2096	5	1982	15.32	-
2028	CIRB	03-05-1998	80/4.7	3924	2689	1568.6	8	1607	-1.44	-
1944	CIRB	10-10-1997	545	2583	2752	1622.6	5	1699	-11.11	-
1713	PAU	05-08-1998	1393	993	2815	1391.7	3	1644	-23.83	-
4640	NDRI	18-09-1997	3481	2100	3808	1735.4	9	1793	-4.84	-

Note: Bulls with less than 10 daughters born not been given ranking.

Set – VII

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. yield (kg)	No. of daughters recorded	Sire Index	% Superiority over contemporary daughters	Rank
4915	NDRI	28-10-1999	3521	2921	3437	2039	17	2116	17.26	I
1796	PAU	10-02-2000	1386	1506	3170	2215	6	2092	15.81	II
2331	CIRB	15-11-1999	515/4.9	1446	2664	1904	9	1897	4.85	III
4807	NDRI	12-01-1999	3655	2363	3544	1882	10	1881	3.98	IV
1419	HAU	24-01-2000	782	4188	3042	1795	20	1790	-1.08	V
2121	CIRB	27-09-1998	982/3.7	1071	2518	1690	5	1736	-4.04	VI
2184	CIRB	06-01-1999	1237	1363	2574	1756	19	1734	-4.11	VII
1727	PAU	31-10-1998	1467	1084	3098	1697	7	1722	-4.78	VIII
1749	PAU	19-02-1999	1425	1354	3182	1702	8	1719	-4.98	IX
2363	CIRB	27-12-1999	917/4.0	2538	2654	1739	24	1697	-6.18	X
1746	PAU	21-09-1999	1802	1153	2718	1696	13	1680	-7.08	XI
2133	CIRB	08-10-1998	381/3.5	1908	2537	1378	3	1633	-9.68	XII

Set – VIII

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. yield (kg)	No. of daughters recorded	Sire Index	% Superiority over contemporary daughters	Rank
1875	GADVASU	20-08-2001	1669	558 PAU (PT)	2714 (3)	2357	8	2300	24.89	I
4813	NDRI	17-01-1999	3818	3966 NDRI (III)	3016 (1)	2148	7	2101	12.59	II
2422	CIRB	19-08-2000	1194	4371 NDRI (V)	3369 (4)	2092	7	2057	9.41	III
2308	CIRB	25-10-1999	587/4.9	584 PAU (PT)	2655 (3)	2003	9	1998	4.51	IV
2250	CIRB	30-08-1999	239/3.8	4071 NDRI (IV)	2748 (5)	1978	4	1952	2.94	V
5049	NDRI	03-10-2000	3296	1992 NDRI (P)	3392 (2)	1958	9	1955	1.87	VI
1867	GADVASU	13-06-2001	1901	1485 CIRB (V)	2709 (1)	1941	2	1929	0.9	VII
5083	NDRI	07-01-2001	3606	2704 NDRI (P)	2924 (2)	1915	5	1918	-0.49	VIII
4865	NDRI	20-07-1999	3791	4071 NDRI (IV)	3333 (2)	1847	10	1847	-4.41	IX
2479	CIRB	01-10-2000	336/1.9	4245 NDRI (V)	2519 (5)	1938	13	1832	-4.59	X
5054	NDRI	19-10-2000	3543	1992 NDRI (P)	3011 (2)	1815	7	1838	-6.03	XI
1868	GADVASU	13-07-2001	1155	2321 NDRI (PT)	2591 (3)	1736	3	1846	-10.05	XII
1893	GADVASU	11-10-2001	1820	4371 NDRI (V)	2753 (1)	1728	3	1843	-10.48	XIII
1492	HAU	02-12-2000	1050	905	2586 (1)	1704	5	1788	-11.93	XIV
2522	CIRB	25-11-2000	839/3.1	1641 CIRB (V)	2567 (5)	1706	7	1752	-12.04	XV
1509	HAU	23-06-2001	845	1524 PAU (V)	3690 (4)	1648	4	1780	-14.84	XVI

Set – IX

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. yield (kg)	No. of daughters recorded	Sire Index	% Superiority over contemporary daughters	Rank
1994	GADVASU	16-06-2003	1884	392	2938	2431.7	18	2486.61	11.73	I
5258	NDRI	01-08-2002	4066	1706	3305	2539.3	7	2466.2	10.52	II
5197	NDRI	13-11-2001	3783	1666	2831	2316.3	12	2319.83	3.76	III
2582	CIRB	23-02-2001	P-224	1573	2836	2279.5	24	2298.07	2.8	IV
5112	NDRI	24-03-2001	3791	2704	3333	2268.2	30	2285.68	2.23	V
2720	CIRB	12-11-2001	515/4.9	1573	2664	2274	15	2280.07	1.91	VI
1903	GADVASU	02-01-2002	1802	1933	2718	2250	20	2253.68	0.68	VII
1575	CCS HAU	05-09-2002	1050	4523	3194	2240.8	18	2241.17	0.09	VIII
2910	CIRB	25-10-2002	1338	4506	3062	2239	19	2238.82	-0.03	IX
1913	GADVASU	12-02-2002	1795	1922	2740	2216.7	14	2213.58	-1.21	X
5312	NDRI	21-01-2003	3492	2361	3534	2158.5	3	2206.6	-1.5	XI
1940	GADVASU	26-07-2002	1530	584	2775	2200.5	17	2190.7	-2.29	XII
5218	NDRI	09-02-2002	3447	2583	2912	2158.7	22	2125.67	-5.38	XIII
1964	GADVASU	05-12-2002	1819	1933	2672	2147.8	23	2107.78	-6.23	XIV
2592	CIRB	20-03-2001	1393	1666	3336	2097.8	28	2018.21	-10.53	XV

Set -X

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	No. of daughters recorded	Sire Index	% superiority over LSM (BLUP)	Rank
1693	LUVAS	27-10-03	1050	392	3194	13	2320.39	1.23	I
2045	GADVASU	24-02-04	1835	3567	3369	48	2320.29	1.23	II
3103	CIRB	13-10-03	1144	392	2942	15	2319.10	1.18	III
2990	CIRB	24-06-03	587/4.9	392	2655	16	2316.41	1.06	IV
507	IVRI	14-12-03	341	1923	2572	13	2296.51	0.19	V
ND2	NDUAT	07-09-02	119		2583	12	2271.8	-0.89	VI
2074	GADVASU	02-09-04	1794	3567	3050	27	2270.51	-0.94	VII
ND1	NDUAT	03-09-02	106		2644	10	2266.88	-1.10	VIII
2062	GADVASU	04-08-04	1819	1419	2672	39	2266.29	-1.13	IX
3631	CIRB	Purchased 26-09-06			18.0 kg Peak Yield	24	2265.54	-1.16	X
5396	NDRI	21-11-03	4635	4807	2617	19	2256.41	-1.56	XI
2083	GADVASU	20-09-04	1888	2363	3063	29	2250.03	-1.84	XII
2073	GADVASU	01-09-04	1909	2184	2717	43	2239.06	-2.32	XIII

Set -XI

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lact 305 day or less yield (kg)	No. of daughters recorded	Sire Index	% superiority over LSM (BLUP)	Rank
3267	CIRB	27-09-04	2263	1419	2489	29	2177.81	0.20	I
3591	CIRB	29-05-06 (P)	3590		2598	29	2176.56	0.14	II
2133	GADVASU	09-11-05	2041	1354	2844	36	2175.40	0.09	III
12	CCSHAU	29-05-05	1180	93	2858	20	2175.13	0.07	IV
5489	NDRI	25-08-04	408		3031	21	2174.76	0.06	V
2154	GADVASU	30-05-06	2360	1964	2593	39	2174.60	0.05	VI
333 (Golu)	DIDWADI				22.0 kg Peak Yield	2	2174.31	0.04	VII
3226	CIRB	20-08-04	587/4.9	829	2655	24	2174.25	0.03	VIII
3255	CIRB	16-09-04	2074	1796	3051	33	2172.50	-0.05	IX
5496	NDRI	07-09-04	412		2780	16	2172.44	-0.05	X
5414	NDRI	21-01-04	4045	2133	2911	9	2172.33	-0.06	XI
ND6	NDUAT	08-03-05	137	-	2702	1	2171.87	-0.08	XII
2148	GADVASU	01-03-06	1710	4865	3008	48	2169.46	-0.19	XIII
5516	NDRI	07-10-04	5110	4915	2765	24	2168.95	-0.21	XIV

Set -XII

Bull no.	Location	Date of birth	Dam No.	Sire No.	Dams best lactation 305 day or less yield (kg)	No. of daughters recorded	Sire Index	% superiority over LSM (BLUP)	Rank
2185	GADVASU	23-11-06	1898	1354	3423	66	2341.35	0.94	I
183	LUVAS	03-06-07	1374	1354	2824	24	2336.77	0.75	II
2177	GADVASU	06-10-06	1884	1354	3024	96	2327.51	0.35	III
5604	NDRI	20-07-05	4020	3108	3222	15	2327.09	0.33	IV
2176	GADVASU	02-10-06	2109	1354	2754	58	2323.32	0.17	V
5720	NDRI	29-06-06	3543	3930	3011	22	2322.94	0.15	VI
Khurana	Rohtak	16-06-07	UK	UK	4160/22.0 kg PY	9	2313.58	-0.25	VII
5710	NDRI	23-05-06	5074	5054	2711	22	2313.12	-0.27	VIII
R-10	REDHU FARM	15-11-07	042810		5192	27	2312.62	-0.29	IX
3598	CIRB	25-07-06	587	1354	2655	25	2309.22	-0.44	X
R-11	REDHU FARM	28-11-07	042832		4000	23	2307.61	-0.51	XI
220	LUVAS	20-09-07	1134	1153	2631	11	22.98.98	-0.88	XII

Set -XIII

Bull no.	Location	Date of birth	Dam No.	Sire No. / Set No.	Dams best lactation 305 day or less yield (kg)	No. of daughters recorded	Sire Index	% superiority over LSM (BLUP)	Rank
2234	GADVASU	06-03-2008	2138	5396 / X	3114	117	2688.44	14.8	I
2269	GADVASU	17-12-2008	2295	3631 / X	3617	87	2618.87	13.86	II
2304	GADVASU	01-08-2009	2138	3226 / XI	3114	154	2573.79	10.8	III
858	IVRI	31-08-2008	358	2045 / X	2882	22	2197.74	-6.17	IV
5943	NDRI	19-12-2007	416	2583	3232	60	2154.96	-8.61	V
838	IVRI	09-07-2008	701	2990 / X	2850	27	2143.37	-8.97	VI
3964	CIRB	01-08-2008	1194	4371 PT / V	3369	37	2119.55	-10.32	VII
4059	CIRB	29-05-2009	3674	4393 PT / V	2510	32	2047.38	-14.29	VIII
851	IVRI	17-08-2008	227	2045 / X	3805	44	1956.66	-19.98	IX

Set -XIV

Bull no.	Location	Date of birth	Dam No.	Sire No./ Set No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. Yield (kg)	No of daughter recorded	Breeding Value	% superiority over LSM (BLUP)	Rank
2357	GADVASU	24-07-2010	P2488	1933	3559	2473	51	2486.91	2.78	I
6044	NDRI	15-01-2009	430	4371 PT	3567	2469	34	2479	2.43	II
4196	CIRB	10-05-2010	3586	1153 PT	3304	2505	21	2474	2.27	III
2369	GADVASU	24-08-2010	P2138	5496	3114	2458	130	2464.53	1.85	IV
6136	NDRI	25-09-2009	5517	2148	4341	2413	54	2423	0.14	V
6066	NDRI	08-04-2009	402	4393 PT	3505	2441	6	2419	-0.04	VI
4093	CIRB	10-09-2009	3133	3255	3040	2382	29	2420	-0.5	VII
4439	CIRB	Purchased	NK	NK	22.0 kg PY	2353	39	2363	-2.36	VIII
6014	NDRI	02-10-2008	5234	1693	3072	2344	49	2353	-2.77	IX
4100	CIRB	18-09-2009	3033	2154	2971	2225	26	2328	-3.8	X

Set -XV

Bull no.	Location	Date of birth	Dam No.	Sire No./ Set No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. Yield (kg)	No of daughter recorded	Breeding Value	% superiority over LSM (BLUP)	Rank
4354	CIRB	05-09-2011	4353 (Pur)	Unknown	3528	2645	77	2589	1.67	I
6007	NDRI	15-09-2008	5231	5396	3260	2683	38	2588	1.61	II
2459	GADVASU	22-12-2011	2489	1796	4636	2611	44	2587	1.58	III
4328	CIRB	14-05-2011	3147	220	2989(4)	2600	65	2584	1.48	IV

2429	GADVASU	15-08-2011	2138	5710	3435	2601	48	2568	0.86	V
4363	CIRB	24-09-2011	3428	4915 PT	3068	2608	48	2560	0.51	VI
4403	CIRB	04-01-2012	3351	R-10	2981	2576	39	2552	0.22	VII
4324	CIRB	19-04-2011	4323 (Pur)	Unknown	3605	2564	60	2546	-0.04	VIII
4438	CIRB	20-03-2012	4437 (Pur)	UK	3222	2527	57	2536	-0.42	IX
6405	NDRI	26-01-2012	486	NK	2743	2501	55	2533	-0.55	X
6139	NDRI	03-10-2009	5650	4506 PT	2828	2515	54	2531	-0.6	XI
2371	GADVASU	30-08-2010	1794	1796	3053	2528	64	2524	-0.9	XII
2412	GADVASU	24-04-2011	2467	220	2998	2476	61	2511	-1.14	XIII
2417	GADVASU	10-07-2011	2487	2177	3565	2456	84	2503	-1.72	XIV
6290	NDRI	26-10-2010	5517	4915 PT	4341	2418	40	2489	-2.27	XV

Set-XVI

Bull no.	Location	Date of birth	Dam No.	Sire No./ Set No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. Yield (kg)	No of daughter recorded	Breeding Value	% superiority over LSM (BLUP)	Rank
M-29	CIRB	16-10-05	4 P	P274	4600	2571	60	2578.94	3.82	I
1053	LUVAS	17-12-13	683	M-29	3559	2561	46	2567.15	3.35	II
2383	GADVASU	13-10-10	2489 P	3267PT/ XI	4636	2553	78	2546.77	2.53	III
4889	CIRB	23-10-04	S-802	FT 245	4120	2535	73	2532.68	1.96	IV
4592	CIRB	28-06-13	4353 P	Khali	3528	2512	61	2518.33	1.38	V
1064	LUVAS	19-02-14	613	BI 330/ XVII	3579	2499	8	2482.85	-0.05	VI
6753	NDRI	13-07-13	470 P	858/XIII	3389	2443	16	2471.15	-0.52	VII
6379	NDRI	17-10-11	402 P	4915PT/ VII	3505	2468	39	2469.65	-0.58	VIII
2467	GADVASU	01-04-12	2279 P	R-10/XII	3574	2444	77	2456.79	-1.10	IX
4623	CIRB	01-09-13	4261 P	1875PT/ VIII	3506	2363	8	2451.66	-1.30	X
6646	NDRI	17-02-13	6627 P	Not Known	3533	2441	40	2451.06	-1.33	XI
1027	LUVAS	28-09-13	603	PC 461	3763	2434	47	2448.85	-1.41	XII
2501	GADVASU	10-10-12	1794 P	1875PT/ VIII	3053	2440	88	2440.90	-1.73	XIII
4705	CIRB	22-07-12	83 P	B 902	3990	2453	78	2439.16	-1.80	XIV
6409	NDRI	09-01-12	490 P	4371PT/V	4090	2389	43	2403.92	-3.22	XV

Set-XVII

Bull no.	Location	Date of birth	Dam No.	Sire No./ Set No.	Dams best lactation 305 day or less yield (kg)	Daughters 1st Lactation 305 day or less Av. Yield (kg)	No of daughter recorded	Breeding Value	% superiority over LSM (BLUP)	Rank
M-51	CIRB	03-02-2006	22 P	274 P	4668	2528.83	68	2558.57	6.76	I
2594	GADVASU	30-07-2014	2221	1994 PT/ Set 9	3557	2515.36	85	2532.78	5.68	II
2565	GADVASU	24-01-2014	2522	2269/Set 13	3287	2465.14	82	2469.72	3.05	III
6942	NDRI	23-08-2014	6627	4439/Set 14	3533	2402.30	51	2400.18	0.15	IV
Dara	Field	29-09-2014	Rani	Not Known	PY 28.9 kg	2389.05	36	2393.37	-0.14	V
M-53	CIRB	25-02-2006	23 P	FT 328	3789	2387.87	30	2388.72	-0.33	VI
1148	LUVAS	28-04-2015	894	6066/Set 14	3587	2375.52	30	2385.31	-0.47	VII
4715	CIRB	27-03-2014	3351	4093/Set 14	3059	2369.31	88	2381.14	-0.65	VIII
4837	CIRB	30-11-2014	3417	2422 PT/ Set 8	3076	2365.61	47	2374.48	-0.92	IX
7010	NDRI	27-12-2014	415	4100/Set 14	3068	2359.41	70	2370.78	-1.08	X
Sikander	Field	15-07-2013	Rani	Not Known	PY 28.9 kg	2352.53	81	2368.49	-1.17	XI
2558	GADVASU	20-12-2013	2279	1875 PT/ Set 8	3574	2347.73	26	2351.36	-1.89	XII
4687	CIRB	20-01-2014	3156	1994 PT/ Set 9	3309	2346.38	67	2350.63	-1.92	XIII
4733	CIRB	14-06-2014	4216	6044 PT/ Set 14	2851	2336.61	52	2346.97	-2.07	XIV
2607	GADVASU	17-12-2014	2605	2369/Set 14	3899	2321.76	37	2342.03	-2.28	XV
B1/330	CIRB	29-12-2006	05B/900	FT 326	4595	2295.54	32	2331.72	-2.71	XVI

PROGENY TESTED BULLS (1-16 SET)

392/1



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
06-04-1989	238	PQ-1	2594	2074	13	2118	22.8	113



NDRI, Karnal



3567/1

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
07-09-1989	2408	2304	2877	1813	20	1852	6.4	243

896/1



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
27-07-1987	911	644	3003	1796	26	1844	5.5	142

761/2



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
20-11-1990	474	366	2878	1960.4	15	1987.4	9.37	274

93/2



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
03-11-1990	-	PQ-1	22.0*PY	1874.1	16	1889.8	3.96	88

829/2



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
04-07-1991	597	766	2626	1877.8	10	1876.3	3.53	248

1153/3



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
13-08-1993	701	896PT	2540	1934	13	1957	12.27	250

1354/3



GADVASU, Ludhiana



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
12-12-1992	762	989	3088	2074	6	1975	13.11	108

1061/3



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
24-09-1992	769	896PT	2846	1902	12	1913	9.50	209



GADVASU, Ludhiana

1506/4



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
25-04-1995	-	988	3018	2065.1	12	2089	18.81	248

1451/4



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
10-08-1994	-	3567PT	3401	1951.4	10	1945	10.44	248

1437/4



GADVASU, Ludhiana



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
04-04-1994	797	636	3127	1919.1	9	1904	8.11	248

4393/5



NDRI, Karnal

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
10-12-1995	2762	1908	3898	2143	13	393.4	22.29	-

4371/5



NDRI, Karnal

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
23-10-1995	2984	988	3258	1971	22	263	14.90	251

1153/6



HAU, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
29/09/1996	618	759	2675	2022.8	21	2121	13.31	250



NDRI, Karnal

4506/6



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
31-10-1996	3527	3551	3512	1981.7	10	1972	9.29	123

1933/6



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
01-10-1997	208	988	2650	1931.9	14	1953	6.92	248



NDRI, Karnal



4915/7

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
28-10-1999	3521	2921	3437	2039	17	2116	17.26	-

1796/7



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
10-02-2000	1386	1506	3170	2215	6	2092	15.81	9

1875/8



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
20-08-2001	1669	558	2714	2357	8	2300	24.89	42

4813/8



NDRI, Karnal

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
17-01-1999	3818	3966	3016	2148	7	2101	12.5	18

2422/8



CIRB, Hisar



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
19-08-2000	1194	4371	3369	2092	7	2057	9.41	248

1994/9



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
16-06-2003	1884	392	2938	2431.7	18	2486.61	11.73	251



NDRI, Karnal



5258/9

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
01-08-2002	4066	1706	3305	2539.3	7	2466.2	10.52	-



LUVAS, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
27-10-2003	1050	392	3194	2074	13	2320.39	1.23	230



GADVASU, Ludhiana



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
24-02-2004	1835	3567	3369	2074	48	2320.29	1.23	423

3267/11



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
27-09-2004	2263	1419	2489	2074	29	2177.81	0.20	230

3591/11



CIRB, Hisar



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
29-05-2006	3590	-	2598	2074	29	2176.56	0.14	548

2133/11



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
09-11-2005	2041	1354	2844	2074	36	2175.40	0.09	248

2185/12



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
23-11-2006	1898	1354	3423	2074	66	2341.35	0.94	241

183/12



LUVAS, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
03-06-2003	1374	1354	2824	2074	24	2336.77	0.75	1261



GADVASU, Ludhiana



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
06-03-2008	2138	5396X	3114	2074	117	2688.44	14.80	20

4196/14



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
10-05-2010	3586	1153PT	3304	2505	21	2474	2.27	841



NDRI, Karnal

6044/14



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
15-01-2009	430	4371PT	3567	2469	34	2479	2.43	622

2357/14



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
24-07-2010	P2488	1933	3559	2473	51	2486.91	2.78	762

4354/15



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
05-09-2011	4353(Pur)	UK	3528	2645	77	2589	1.67	3734

2459/15



PHOTO NOT AVAILABLE



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
22-12-2011	2489	1796	4636	2611	44	2587	1.58	638



NDRI, Karnal

6007/15



PHOTO NOT AVAILABLE

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
15-09-2008	5231	5396X	3260	2683	38	2588	1.61	1289

M-29/16



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
16-10-2005	4 P	P 274	4600	2074	60	2578.94	3.82	5481

1053/16



LUVAS, Hisar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
17-12-2013	683	M-29	3559	2074	46	2567.15	3.35	5289

2383/16



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
13-10-2010	2489P	3267PT	4636	2074	78	2546.77	2.53	1819



CIRB, Hisar



M-51/17

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
03-02-2006	22P	274P	4668	2528.83	68	2558.57	6.76	7914



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
30-07-2014	2221	1994PT	3557	2515.36	85	2532.78	5.68	847

TEST BULL (SET - 18)

4905/18



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
09-06-2015	3633	4324 Set 15	2726	3371	15.3	49.35	7998



CIRB, Hisar

4995/18



Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
07-12-2015	4713 P	M-51 Set 17	-	3257	16.5	-	7998

5147/18



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
01-01-2017	4384	4592 set 16	2373	3057	16.6	45.76	7998



LUVAS, Hisar



1150/18

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
01-05-2015	782	6066 set 14	2705	3127	15.9	-	7998

1208/18



LUVAS, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
16-10-2015	616	2045PT set 10	3267	3437	15.1	-	7998



LUVAS, Hisar

1209/18



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
17-10-2015	708	2045 set 10	2645	3824	18.4	-	7483

1219/18



LUVAS, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
24-11-2015	787	6405 Set 15	2709	4768	21.0	-	4228

2645/18



GADVASU, Ludhiana



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
20-06-2015	2530	1994PT set 9	3125	3394	19.0	-	1792

2676/18



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
15-03-2016	2759	2412 set 15	3023	3023	15.5	-	2368

2677/18



GADVASU, Ludhiana



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
27-03-2016	2548	4324 Set15	2035	3135	16.5	-	2373

2689/18



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
03-07-2016	2436	1693 PT LUVAS	1983	3151	18.8	-	735



NDRI, Karnal



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
08-04-2015	6625	-	-	3465	17	69.1	1946

7147/18



NDRI, Karnal

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
14-08-2015	6631	-	-	3018	15.5	54.1	2246



NDRI, Karnal

7227/18



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
04-01-2016	5881	6044 Set 14	1802	3099	16.5	37.5	496

7263/18



NDRI, Karnal

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
28-05-2016	6625	6290 Set 15	-	3465	17.0	69.7	2078

TEST BULL (SET - 19)



LUVAS, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
18-11-2016	708	2045 PT Set 10	2645	3824	18.4	-	6465



GADVASU, Ludhiana



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
01-03-2016	2532	2412 Set 15	3583	3583	23.0	-	2610

2737/19



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
04-08-2017	2543	2383 Set 16	2340	3180	22.8	-	1058

2759/19



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
09-11-2017	2502	2133 Set 11	1834	3340	20.7	-	2603

5181/19



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
11-04-2017	4340	3591 PT Set 11	2543	3428	17.9	37.61	8833

5232/19



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
06-08-2017	4322	1354 PT Set 3	2557	3568	17.0	41.39	9633

5246/19



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
20-08-2017	4672	4371 PT Set 5	2166	3124	15.7	44.28	9238

5310/19



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
23-12-2017	4545	6646 Set 16	2427	4069	21.0	42.90	8588

5320/19



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
15-01-2018	4017	1053 Set 16	2550	3340	15.2	41.49	7959



CIRB, Hisar



5333/19

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
02-02-2018	3485	1053 Set 16	1916	3304	17.6	38.01	8211

5374/19



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
12-07-2018	4344	1148 Set 17	2484	3244	17.4	46.16	8201



NDRI, Karnal



7604/19

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
18-06-2018	6477	7010 Set 17	2684	3158	16	45.3	1343

TEST BULL (SET - 20)

19/20



LUVAS, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
29-10-2018	777	2594 Set 17	2641	3695	21.6	-	8006



LUVAS, Hisar



1454/20

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
19-06-2018	976	183 PT Set 12	2965	3355	17.4	-	8063

2793/20



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
06-07-2018	2788	2467 Set 16	2971	3339	21.5	-	1443



GADVASU, Ludhiana



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
11-10-2018	2897	Virat, Field	1577	4814	28.7	-	1828

2838/20



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
02-11-2018	2502	1354 PT Set 3	1834	3340	20.7	-	2248

2850/20



GADVASU, Ludhiana



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
25-01-2019	2973	2594 Set 17	2623	3683	20.6	-	1078

3004/20



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
13-10-2016	Laado	Rustam, Field	2475	4716	26.2	-	948



CIRB, Hisar

5427/20



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
10-11-2018	3633	R-24 Field	2726	3371	15.3	49.35	8088

5481/20



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
29-03-2019	4621	4733 Set 17	2002	3332	16.6	38.66	8323



CIRB, Hisar



5500/20

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
15-07-2019	4934	1148 Set 17	2888	3271	16.5	46.45	8348

5505/20



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
22-07-2019	4251	1148 Set 17	2407	4138	22.0	50.30	1656



CIRB, Hisar

5511/20



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
27-09-2019	4800	6942 Set 17	2612	3356	17.4	41.92	6376



NDRI, Karnal

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
30-03-2018	6147	6253 Non-set	2435	3600	16.5	44	2088



NDRI, Karnal



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
15-10-2018	6735	2558 Set 17	3203	3203	13.5	51.1	2928

TEST BULL (SET - 21)

109/21



LUVAS, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
17-09-2019	1068	M-53 Set 17	3128	3660	16.3	-	583

112/21



LUVAS, Hisar



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
29-09-2019	943	6942 Set 17	2735	4390	17.2	-	3581

297/21



IVRI, Izatnagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
08-08-2017	869	4705 Set 16	2385	3407	17.5	39.37	3715

2979/21



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
26-11-2020	3083	2689 Set 18	2411	3440	21.6	-	4190

2990/21



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
24-12-2020	2741 pur	1219 Set 18	2104	3723	21.2	-	505



GADVASU, Ludhiana

3014/21



PHOTO NOT AVAILABLE

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
06-10-2020	Dhano	Birla, field	2475	4420	24.56	-	1915

5414/21



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
03-10-2018	4593	4998 Non-set	2708	3321	21.0	49.87	8214



CIRB, Hisar

5629/21



Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
29-01-2020	4613	2645 Set 18	2475	4180	20.2	48.66	8506

5638/21



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
24-02-2020	5223	2234 PT Set 13	3364	3691	19.5	30.94	6052



CIRB, Hisar



5690/21

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
02-08-2020	5021	4905 Set 18	3573	4029	21.0	53.52	7257

5723/21



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
07-10-2020	5179	7227 Set 18	4073	5170	26.8	42.51	234

5764/21



CIRB, Hisar

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
22-11-2020	4989	4905 Set 18	2708	3644	17.5	45.04	3328

7630/21



NDRI, Karnal

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
05-09-2018	6852	M-51 Set 17	3343	3343	15.5	41.7	2460



NDRI, Karnal



7768/21

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
04-02-2019	6922	2607 Set 17	2862	3323	16.5	42.0	2070

7990/21



NDRI, Karnal

Date of Birth	Dam	Sire	Dam's first lactation 305-days or less yield (kg)	Dam's best lactation 305-days or less yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
19-08-2020	6626	183 PT set 12	3394	3991	18.0	52	1800



NILI-RAVI

Nili-Ravi – The name “Nili” means BLUE signifying the blue waters of river Sutlej, and “Ravi” originating from Ravi river valley, have amalgamated their unique features over time to give birth to this beautiful breed “Nili-Ravi”, also known as “Panch-Kalyani” due to the white markings at 5 distinct spots. This breed with walled eyes has a production and reproduction performance which is at par with Murrah.



Technical Programme

- Establishment and maintenance of an elite herd of 400 breedable Nili-Ravi buffaloes (200 at each centre).
- Selection and testing of 8-10 bulls (superior germplasm) for each set for breed improvement.
- Production and storage 1000 – 1500 frozen semen doses from each test bull, for future use.
- Maintain a minimum number of 8000 frozen semen doses until the particular SET gets evaluated.
- Evaluation and ranking of bulls on the basis of their progeny performance (first lactation) for selection of top 2 bulls as proven bulls from each set.
- Application of proven bull's semen on elite buffaloes for the production of future sires and replacement heifers.
- Dissemination of semen/surplus males to farmers and agencies involved in propagation and conservation of Nili-Ravi germplasm.

List of Nili-Ravi bulls (progeny tested 6th-7th set) under Network Project on Buffalo Improvement

Set –VI

Bull no.	Dam	Sire	Date of Birth	No. of Daughters recorded	Dam's best lactation 305 days or less yield (kg)	Sires' daughters best average (kg)	Breeding Value (Index Value)	% superiority	Rank
252	900	891	12/05/11	18	3777	3675	2616.82	5.93	1
254	60	916	02/06/11	17	2811	3628	2579.39	4.42	2
251	827	702	24/03/11	5	3199	3158	2507.61	1.51	3
245	841	Suraj	07/02/11	6	3527	2963	2457.78	-0.50	4
181	621	716	17/01/10	9	2929	3103	2373.09	-3.93	5
168	965	802	14/11/09	15	2446	2743	2301.56	-6.83	6

Set –VII

Bull no.	Dam	Sire	Date of Birth	No. of Daughters recorded	Dam's best lactation 305 days or less yield (kg)	Daughter Maximum FLMY (kg)	Average Daughter FLMY (kg)	Breeding Value (Index Value)	% Superiority	Rank
352	134	878	03/10/12	10	4050	3581	2520.60	2472.28	7.53	1
312	940	881	04/02/12	12	3317	2890	2489.84	2461.12	7.05	2
298	828	930	07/12/11	14	3979	3251	2481.14	2459.96	6.99	3
308	81	806	21/01/12	12	3746	3561	2453.25	2439.54	6.11	4
336	822	900	19/08/12	17	3348	3804	2425.00	2423.70	5.42	5
359	118	806	02/11/12	14	3530	3015	2191.71	2270.55	-1.24	6

PROGENY TESTED BULLS (SET 1-7)

411/1



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
30-09-1998	992	112	2389	1995	19	2315.5	25.07	545

473/1



CIRB, Nabha



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
22-12-1999	1039	N-147/4	2324	1960	10	1961.7	10.01	542

523/2



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
24-09-2000	47	N - 1430/4	2770	1981	23	2058.8	11.24	544

535/2



CIRB, Nabha



Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
26-11-2000	16	177	3208	2063	10	2661.9	10.85	803

674/3



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
06-12-2002	300	300	3350	2358	10	2388.9	9.39	1189

702/3



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
15-07-2003	487	375	3421	2385	9	2376.8	8.88	823

905/4



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
19-05-2006	466	528	3639	2582.11	9	2561.4	15.29	1052

916/4



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
17-08-2006	681	576	2961	2409	11	2427.7	9.99	1403

03/5



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
29-10-2007	650	528	2866	2433	11	2401.2	4.46	403



CIRB, Nabha



27/5

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
13-01-2008	828	577	3979	2498	18	2488.1	6.79	2379

252/6



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
12-05-2011	900	891	3777	2519	17	2616.8	5.93	363

254/6



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
02-06-2011	60	916	2811	2513	17	2579.4	4.42	2022

298/7



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
07-12-2011	828	930	3979	2481	14	2459.96	6.99	1809

312/7



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
04-02-2012	940	881	3317	2490	12	2461.12	7.05	680

352/7



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
03-10-2012	134	878	4050	2524	12	2472.28	7.53	1990

TEST BULL (SET 8-11)

435/8



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
16-10-2013	230	03	2122	3018	19.0	37.7	1436



CIRB, Nabha

480/8



Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
21-06-2014	134	63	2662	4050	17.5	38.8	-

487/8



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
18-08-2014	21	113	3010	3115	14.2	40.4	9876

501/8



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
09-10-2014	116	113	2444	3516	17.5	44.2	2451

507/8



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
26-10-2014	287	991	3089	4247	21.5	39.2	3618



CIRB, Nabha



511/8

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
29-11-2014	300	27	2785	3796	19.5	38.1	1957

516/8



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
17-12-2014	81	113	3113	3746	17.4	41.5	2972



CIRB, Nabha

543/8



Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
24-06-2015	900	25	2198	3777	19	38.1	5002

551/9



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
22-07-2015	940	63	1930	3317	18.7	37.1	4490



CIRB, Nabha



Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
10-08-2015	366	R-1	2635	3277	17.4	34.3	4033

561/9



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
25-08-2015	367	25	2958	3888	17.4	34.3	6



CIRB, Nabha



565/9

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
02-09-2015	134	63	2662	4050	17.5	38.8	-

579/9



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
26-10-2015	827	245	2386	3199	15.3	41.4	1282



CIRB, Nabha

593/9



Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
22-12-2015	81	168	3113	3746	17.4	41.5	-

674/9



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
19-01-2017	68	252	2146	3161	23.5	43.6	3896

705/9



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
10-07-2017	115	473	1117	3146	16.3	35.1	2201

710/9



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
25-07-2017	398	252	2784	3395	16.3	33.6	-



CIRB, Nabha

728/10



Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
16-08-2017	376	298	2374	4018	22.0	45.1	2466

753/10



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
07-12-2017	287	312	3089	4247	21.5	39.2	466

773/10



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
10-04-2018	448	312	2158	3725	17.0	34.2	201

782/10



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
04-05-2018	451	298	2819	4023	17.7	45.6	543



CIRB, Nabha

800/10



Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
01-08-2018	312	308	2848	3134	18.5	45.3	1042

852/10



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
14-07-2019	294	702 PT	3063	3771	17.4	38.5	1705



CIRB, Nabha

856/10



Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
05-08-2019	450	352	3517	4202	23.8	44.2	-

858/10



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
08-08-2019	445	352	2148	3422	14.8	39.6	1352



CIRB, Nabha

905/11



Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
24-12-2019	272	916 PT	2779	3556	16.8	51.81	1052

912/11



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
11-02-2020	605	501	3631	3631	17.5	41.81	-



CIRB, Nabha

917/11



Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
14-03-2020	614	507	3675	5102	25.1	42.24	-

955/11



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
28-09-2020	1073 P	487	2537	3240	16.7	35.76	-



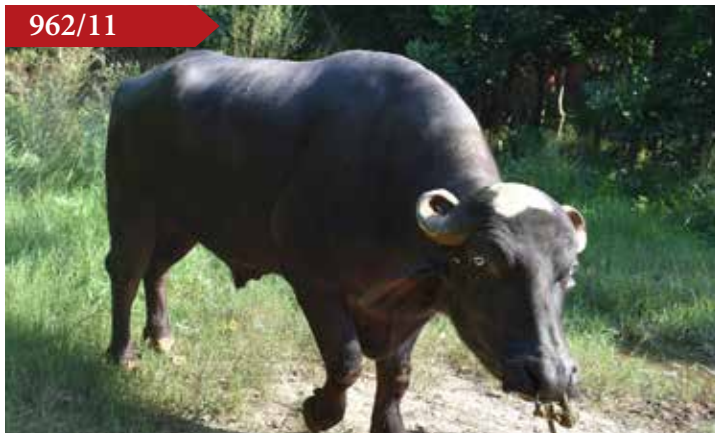
CIRB, Nabha



957/11

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
03-10-2020	362	487	2310	4021	18.0	33.19	-

962/11



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
26-10-2020	451	411	2810	4023	17.7	45.56	-

968/11



CIRB, Nabha

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
07-12-2020	423	543	2467	3222	15.5	44.47	-

3087/11



GADVASU, Ludhiana

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
28-08-2021	378	487	3533	3533	16.2	-	-



BHADAWARI

Bhadawari – Habitants of Yamuna and Chambal ravines are known for their small copper coloured body. Their milk has an unmatched flavour with subtle sweetness and high fat% in it. The Bhadawari buffaloes have adapted to the harsh conditions of the ravines with undulating topography, thorny and scanty bushes, climatic stress and draught conditions.



Technical Programme

- Establishment and maintenance of an elite herd of buffalo breed with a herd strength 75 breedable females.
- Selection and testing of minimum 4-6 breeding bulls in every 24 months cycle.
- Production of minimum 3000 to 5000 frozen semen doses from each test bull.
- Maintain a minimum number of 2000 frozen semen doses until the particular SET gets evaluated.
- Evaluation and ranking of bulls on the basis of their progeny performance (first lactation) for selection of top 20-25% as proven bulls from each set.
- Application of proven bull's semen on elite buffaloes for the production of future sires and replacement heifers.
- Minimum weekly recording of milk yield of individual daughters/ buffaloes at institutional herd / monthly recording in field units over complete lactation(s) with wet average, herd average, percent in milk, lactation length, dry period, TLMY, SLMY (305 days or less, up to minimum of 240 days (All breeds) / 1500 kg in Murrah) and Peak yield, Milk yield per day of herd life (total milk produced from date of birth till completion of 4th or more lactation).
- Monthly testing of milk constituents (Fat%, SNF% and Protein%) and Somatic Cell Count, wherever feasible, at institutional herds.
- Recording of reproductive traits viz., AFC, Service period, Days open, Calving interval, Number of services per conception, Conception rate and Calving abnormalities.
- Health management including udder health, vaccination, de-worming, disease screening, mortality and periodic body weight records

List of Bhadawari bulls under Network Project on Buffalo Improvement

Set -I

Bull no.	Dam	Sire	Date of Birth	Dam's best lactation 305 days or less yield (kg)	Dam's Peak Yield (kg)	Dam's Milk Fat %	Semen doses available
B-78	25	44	22/08/03	1114	7.0	8.0	-
B-79	21	1	25/08/03	1100	9.0	8.95	-
B-84	23	44	13/10/03	1200	7.5	8.02	-
B-87	10	46	27/10/03	1178	7.5	9.7	-
B-89	3	76	22/11/03	1355	8	8.59	-
B-138	-	-	08/12/01	Purchased			-
B-139	-	-	17/02/02				-
B-141	-	-	10/10/02				-

Set -II

Sr. No.	Bull no.	Dam	Sire	Date of Birth	Dam's best lactation 305 days or less yield (kg)	Dam's Peak Yield (kg)	Dam's Milk Fat %	Semen doses available
1	B-122	24	1	24/11/04	1444	9.0	7.73	292
2	B-143	32	76	29/07/05	1300	7.5	9.15	400
3	B-147	34	1	10/08/05	1446	8.5	8.55	-
4	B-150	18	1	19/08/05	1200	7.5	8.89	169
5	B-167	30	44	22/10/05	1443	9.0	8.10	275
6	B-170	28	46	06/08/05	1727	9.0	7.77	254
7	B-182	136	44	12/04/06	1593	8.5	8.06	339
8	B-184	72	76	21/07/06	1631	8.5	8.22	291

Set -III

Sr. No.	Bull no.	Dam	Sire	Date of Birth	Dam's best lactation 305 days or less yield (kg)	Dam's Peak Yield (kg)	Dam's Milk Fat %	Semen doses available
1	B-228	126	84	21/10/07	1973	12.0	8.0	1397
2	B-240	164	79	04/01/08	1888	9.5	10.8	872
3	B-244	94	84	04/04/08	1840	9.0	8.7	1105
4	B-331	88	182	03/09/11	2000	10.5	9.6	9051
5	B-354	107	170	02/02/13	1932	13	9.6	1588
6	B-366	193	244	25/09/13	2375	12.7	10.6	1983

BHADAWARI BULLS (CURRENT SET)

B-524



IGFRI, Jhansi

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
02-02-2020	258	354	1446	1970	9.8	44.2	



IGFRI, Jhansi



B-535

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
10-10-2020	435	240	1756	1756	9.3	56.7	

B-481



IGFRI, Jhansi

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
03-02-2018	195	331	1456	1927	9.2	45.7	850



JAFFARABADI

Jaffarabdi – Dwelling chiefly in the Gir forest, this buffalo breed is the heaviest buffalo breed with high fat% in its milk. Reared mostly by the “Maldharis” of the Saurashtra region of Gujarat, this breed is chiefly dependent on grazing. These buffaloes are mostly reared for ghee due to the high fat content of its milk.



KAMDHENU UNIVERSITY
કામધેનુ યુનિવર્સિટી

Technical Programme

- Establishment and maintenance of an elite herd of 225 breedable Jaffarabadi females.
- Selection and testing of minimum 4-6 bulls in every 24 months cycle.
- Production of minimum 3000 to 5000 frozen semen doses from each test bull.
- Maintain a minimum number of 2000 frozen semen doses until the particular SET gets evaluated.
- Evaluation and ranking of bulls on the basis of their progeny performance (first lactation) for selection of top 20-25% as proven bulls from each set.
- Application of proven bull's semen on elite buffaloes for the production of future sires and replacement heifers.
- Minimum weekly recording of milk yield of individual daughters/ buffaloes at institutional herd / monthly recording in field units over complete lactation(s) with wet average, herd average, percent in milk, lactation length, dry period, TLMY, SLMY (305 days or less, up to minimum of 240 days (All breeds) / 1500 kg in Murrah) and Peak yield, Milk yield per day of herd life (total milk produced from date of birth till completion of 4th or more lactation).
- Monthly testing of milk constituents (Fat%, SNF% and Protein%) and Somatic Cell Count, wherever feasible, at institutional herds.
- Recording of reproductive traits viz., AFC, Service period, Days open, Calving interval, Number of services per conception, Conception rate and Calving abnormalities.
- Health management including udder health, vaccination, de-worming, disease screening, mortality and periodic body weight records.

List of Jaffarabadi bulls (progeny tested) under Network Project on Buffalo Improvement

Set -I

Sr. No.	Bull no. (name)	Dam	Sire	Date of Birth	Dam's best lactation 305 days or less yield (kg)	Daughters recorded	Sire Index	Semen Doses Available
1	Laxman	Laxmi	Subiraj	16/10/03	3738	87	2732.07	3417
2	Bhagro	900	891	Purchased	20 (PY)	45	2672.21	6845
3	Nagraj	Nagari	Rupnath	18/12/02	2957	44		3259

Set - II

Sr. No.	Bull no. (name)	Dam	Sire	Date of Birth	Dam's best lactation 305 days or less yield (kg)	Daughters recorded	Sire Index	Semen Doses Available
1	Moti	-	-	Purchased	>3000	51	2730.36	7728
2	Haresh	Hitad	Hemalo	08/02/04	2884	38	-	1790
3	Sunder	Sundari	Lailano	13/07/05	2732	27	-	3014
4	Raja	Ranjita	Subiraj	08/05/04	2948	48	-	5785
5	Dhingalo	-	-	Purchased	>3000	25	-	7191
6	Bholenath	-	-	Purchased	>3000	80	-	1839

PROGENY TESTED BULLS (SET 1-2)

Laxman/1



CBF, KU, Junagadh

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
16-10-2003	Laxmi	Subiraj	3738	2074	87	2732.07	22.8	3417

Bhagro/1



CBF, KU, Junagadh

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
-	900	891	20 kg (PY)	2074	45	2672.21	22.8	6845

Moti/2



CBF, KU, Junagadh

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
-	-	-	2957	2074	51	2730.36	22.8	7728

TEST BULLS (SET 3-5)

Nayan(7/10)/3



CBF, KU, Junagadh

Date of Birth	Dam	Sire	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
12-06-2010	Mira	Nagraj set 1	4120.9	-	-	6490

Abhijit (A1/10)/3



CBF, KU, Junagadh

Date of Birth	Dam	Sire	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
-	Hedi	-	3184.2	-	-	5916

Madhav (37/10)/3**CBF, KU, Junagadh**

Date of Birth	Dam	Sire	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
19-09-2010	Manisha	Nagraj set 1	3895.8	-	-	6662

Girish (11/13)/3**CBF, KU, Junagadh**

Date of Birth	Dam	Sire	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
18-08-2013	Grishma	Dhingalo	3028.0	-	-	4529

Ronak (09/11)/3

CBF, KU, Junagadh

Date of Birth	Dam	Sire	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
10-07-2011	Rita	Gajanan	3140.0	-	-	5140



CBF, KU, Junagadh

Raghu/3

Dam's best lactation 305-days yield (kg)	No. of semen doses available
>3000	4570

Chaman/3**CBF, KU, Junagadh**

Dam's best lactation 305-days yield (kg)	No. of semen doses available
3500	14045

**CBF, KU, Junagadh****Babar/3**

Dam's best lactation 305-days yield (kg)
>3000

Badal (3665)/4



CBF, KU, Junagadh

Dam's best lactation 305-days yield (kg)	No. of semen doses available
>3000	6773

Kamlesh (11081)/4



CBF, KU, Junagadh

Dam's best lactation 305-days yield (kg)	No. of semen doses available
>3000	1655

Mayur (27/15)/4



CBF, KU, Junagadh

Date of Birth	Dam	Sire	Dam's best lactation 305- days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
17-07-2015	Mina (AM 2/11)	Haresh	3181	-	-	780

Hamir (37/15)/4



CBF, KU, Junagadh

Date of Birth	Dam	Sire	Dam's best lactation 305- days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
05-09-2015	Hedi(AM 4/11)	Bholenath	3616	-	-	9620

Balo (43/75)/4**CBF, KU, Junagadh**

Date of Birth	Dam	Sire	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
29-09-2015	Babli(53 /09)/4	Nayan	3201	-	-	9865

Yuvraj (391566)/5**CBF, KU, Junagadh**

Date of Birth	Dam	Sire	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
29-08-2017	Mausami(A8-11)	Girish set 3	3789	-	-	805

Janak (11084)/4



CBF, KU, Junagadh

Dam's best lactation 305-days yield (kg)	No. of semen doses available
>3000	6158



CBF, KU, Junagadh

Dam's best lactation 305-days yield (kg)	No. of semen doses available
>3000	2125



Sango(19100)/4

Samrat (11086)/4



CBF, KU, Junagadh

Dam's best lactation 305-days yield (kg)	No. of semen doses available
>3000	7175

Ranamal/5



CBF, KU, Junagadh

Dam's best lactation 305-days yield (kg)	No. of semen doses available
>3500	455



CBF, KU, Junagadh

Dam's best lactation 305-days yield (kg)	No. of semen doses available
>3000	5380

Nayak (11087)/4



Alok (10376)/3



CBF, KU, Junagadh

Dam's best lactation 305-days yield (kg)	No. of semen doses available
>3500	9580

31392/5



CBF, KU, Junagadh

Dam's best
lactation 305-
days yield (kg)

4236.3



CBF, KU, Junagadh

Dam's best
lactation 305-
days yield (kg)

>3500

31400/5



31395/5



CBF, KU, Junagadh

Dam's best
lactation 305-
days yield (kg)

>3500

31399/5



CBF, KU, Junagadh

Dam's best
lactation 305-
days yield (kg)

>3500



SURTI

Surti – With rusty brown to silver gray coat colour, this breed is known for its docile temperament and hence is preferred as a city buffalo. The breed is well known among the landless and marginal farmers of Gujarat as it consumes less feed, thrives well both on stovers and on limited or no green fodder.



। पशुधनं नित्यं सर्वलोकोपकारकम् ।

Technical Programme

- Establishment and maintenance of an elite herd of Surti with herd strength of 120.
- Selection and testing of minimum 4-6 bulls in every 24 months cycle.
- Production of minimum 2000 frozen semen doses from each test bull.
- Maintain a minimum number of 2000 of frozen semen doses until the particular SET gets evaluated.
- Evaluation and ranking of bulls on the basis of their progeny performance (first lactation) for selection of top 20-25% as proven bulls from each set.
- Application of proven bull's semen on elite buffaloes for the production of future sires and replacement heifers.
- Minimum weekly recording of milk yield of individual daughters/ buffaloes at institutional herd / monthly recording in field units over complete lactation(s) with wet average, herd average, percent in milk, lactation length, dry period, TLMY, SLMY (305 days or less, up to minimum of 240 days) and peak yield, milk yield per day of herd life (total milk produced from date of birth till completion of 4th or more lactation).
- Monthly testing of milk constituents (Fat%, SNF% and Protein %) and Somatic Cell Count, wherever feasible, at institutional herds.
- Recording of reproductive traits viz., AFC, Service period, Days open, Calving interval, Number of services per conception, Conception rate and Calving abnormalities.
- Health management including udder health, vaccination, de-worming, disease screening, mortality and periodic body weight records.

List of Surti bulls (Progeny tested Set I - VII) under Network Project on Buffalo Improvement

Set - I

Bull No.	Date of Birth	Dam	Sire	Dams' Best Yield (Kg)	Daughter's Avg. 1st Lactation 305 days Yield (kg)	Daughters recorded	% Superiority	Sire Index/ Breeding Value	No. semen doses available
1948	05/10/91	2273	1933	2578	1424	19	13.11	1727.00	
1949	02/11/91	510	1924	2078	1324	12	1.46	1545.00	
1947	18/12/91	1038	1924	1810	1271	15	-3.71	1472.00	
1946	24/03/92	722	1932	2244	1207	18	-10.46	1357.00	

Set – II

Bull No.	Date of Birth	Dam	Sire	Dams' Best Yield (Kg)	Daughter's Avg. 1st Lactation 305 days Yield (kg)	Daughters recorded	% Superiority	Sire Index/ Breeding Value	No. semen doses available
1952	23/10/93	971	1940	2272	1271.73	11	1.90	1275.27	
1950	13/12/92	83-16	87-02	1822	1264.27	15	1.27	1270.19	
1953	14/01/95	2273	1941	2578	1249.81	17	-0.30	1248.39	
1951	24/11/92	85-16	82-06	1822	1231.13	16	-2.37	1218.49	

Set – III

Bull No.	Date of Birth	Dam	Sire	Dams' Best Yield (Kg)	Daughter's Avg. 1st Lactation 305 days Yield (kg)	Daughters recorded	% Superiority	Sire Index/ Breeding Value	No. semen doses available
1955	12/01/96	2145	1945	2253	1270.30	22	3.59	1307.77	433
1961	01/11/96	2226	1947	2264	1277.58	17	4.04	1317.53	381
1957	19/09/94	2310	1934	2255	1256.75	15	2.06	1276.34	876
1958	27/09/96	1001	1946	2098	1108.33	14	-13.23	999.00	163
1956	07/10/95	2333	1943	2217	1275.54	17	3.85	1313.59	530
1959	31/12/96	2273	1946	2578	1186.40	16	-4.83	1142.58	-

Set – IV

Bull No.	Date of Birth	Dam	Sire	Dams' Best Yield (Kg)	Daughter's Avg. 1st Lactation 305 days Yield (kg)	Daughters recorded	% Superiority	Sire Index/ Breeding Value	No. semen doses available
1963	01/11/97	2305	1918	2534	1452.28	12	16.20	1486.29	842
1968	27/06/00	3443	1934	2395	1292.25	13	3.78	1301.86	1538
1969	14/07/00	2310	1938	1969	1262.88	14	3.78	1301.86	1630
1964	04/12/97	2273	1946	2135	1280.01	14	2.72	1288.58	498
1965	03/02/98	3443	1949	2395	1187.68	10	-6.06	1185.55	350
1966	09/09/98	2555	1950	2095	1145.67	11	-10.60	1134.86	1088
1967	22/05/99	2305	1919	2534	1058.80	09	-20.36	1066.22	2373

Set – V

Bull No.	Date of Birth	Dam	Sire	Dams' Best Yield (Kg)	Daughter's Avg. 1st Lactation 305 days Yield (kg)	Daughters recorded	% Superiority	Sire Index/ Breeding Value	No. semen doses available
1977	10/12/02	3590	1959	1950	1951	17	10.05	1538.38	1871

1976	11/06/01	3600	1929	2252	1484.96	08	8.88	1468.63	1342
1975	16/08/01	332	UK	1800	1445.14	13	6.48	1460.48	741
1974	15/07/01	21	UK	2208	1402.73	22	3.58	1427.99	1137
1972	10/09/01	3630	1953	1848	1287.53	09	-6.42	1292.26	573
1978	13/09/01	3760	1955	2026	1313.64	20	-4.65	1286.74	70
1971	01/08/00	2709	1931	2100	1168.14	07	-17.88	1209.18	1111
1973	09/02/01	219	300	2039	1139.61	09	-21.44	1153.61	1451

Set – VI

Bull No.	Date of Birth	Dam	Sire	Dams' Best Yield (Kg)	Daughter's Avg. 1st Lactation 305 days Yield (kg)	Daughters recorded	% Superiority	Sire Index/ Breeding Value	No. semen doses available
4302	02/11/04	3688	1966	1875	1677.50	05	9.22	1627.65	160
4299	18/10/04	3488	1968	1860	1564.96	14	2.51	1578.87	5665
4229	27/07/03	3999	1959	1734	1537.72	23	0.44	1545.60	3627
4264	06/12/03	3822	1962	1983	1514.34	20	-1.67	1505.04	2281
4203	16/04/23	3799	1935	1908	1468.18	14	-5.41	1451.12	268
4321	18/12/04	3600	1948	2252	-	-	-	-	-
4323	02/01/05	3598	1965	2465	-	-	-	-	-
25/05	24/08/05	12/99	44/00	1562	-	-	-	-	-
08/06	15/03/06	14/96	Akshay	-	-	-	-	-	-

Set – VII

Bull No.	Date of Birth	Dam	Sire	Dams' Best Yield (Kg)	Daughter's Avg. 1st Lactation 305 days Yield (kg)	Daughters recorded	% Superiority	Sire Index/ Breeding Value	No. semen doses available
4429	15/08/07	3788	1972	1686	1560.08	24	5.44	1607.03	2391
4392	09/10/06	3743	1972	1800	1584.37	13	6.48	1600.72	1996
4458	08/07/08	3836	1973	2198	1536.19	15	3.188	1548.37	123
4373	28/02/06	3701	1949	1986	1505.09	12	0.83	1506.47	1746
4413	27/02/07	3908	1974	1996.5	1474.61	19	-1.59	1465.24	1164
4403	28/11/06	3766	1949	2150	1372.29	26	-11.64	1275.33	3036
4497	30/05/09	4194	1974	1895	-	-	-	-	-

PROGENY TESTED SURTI BULLS (SET 1 - 7)

1948/1



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
05-10-1991	2273	1933	2578	1424	19	1727	13.11	

1950/2



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
13-12-1992	83-16	87-02	1822	1267.27	15	1270.19	1.27	

1952/2



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
23-10-1993	971	1940	2272	1271.73	11	1275.27	1.90	

1955/3



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
12-01-1996	2145	1945	2253	1270.30	22	1307.77	3.59	433

1961/3



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
01-11-1996	2226	1947	2264	1277.58	17	1317.53	4.04	381

1963/4



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
01-11-1997	2305	1918	2534	1452.28	12	1486.29	16.20	842

1968/4



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
27-06-2000	3443	1934	2395	1292.25	13	1301.86	3.78	1538

1976/5



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
11-06-2001	3600	1929	2252	1484.96	8	1468.63	8.88	1342

1977/5



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
10-12-2002	3590	1959	1950	1951	17	1538.38	10.05	1871

4299/6



LRS, Vallabhnagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
18-10-2004	3488	1968	1860	1564.96	14	1578.87	2.51	5665

4302/6



LRS, Vallabhnagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
02-11-2004	3688	1966	1875	1677.50	5	1627.65	9.22	160

4392/7



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
09-10-2006	3743	1972	1800	1584.37	13	1600.72	6.48	1996



LRS, Vallabh Nagar



4429/7

Date of Birth	Dam	Sire	Dam's best lactation 305-days or less yield (kg)	Daughter's average first lactation 305-days or less yield (kg)	No. of daughters recorded	Index/Breeding Value (kg)	% superiority over contemporary daughters	No. of semen doses available
15-08-2007	3788	1972	1686	1560.08	24	1607.03	5.44	2391

SURTI TEST BULLS (SET 8-10)

4464/8



LRS, Vallabhnagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
24-08-2008	3701	1949 set 18	-	1986.0	-	-	1525

4529/8



LRS, Vallabhnagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
07-08-2010	4289	1971 set 18	-	1398.5	-	-	1946

4542/8



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
28-08-2010	4189	1971 set 18	-	1397.5	-	-	2832

4548/8



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
24-09-2010	4224	1974 set 18	-	1573.0	-	-	1508

4567/8



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
21-08-2011	4330	1973 set 18		2054.9			1758



LRS, Vallabh Nagar



4578/8

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
23-09-2011	4198	1974 set 18	-	1790.5	-	-	2275

4611/9



LRS, Vallabhnagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
28-09-2012	3908	1948 set 1	-	1996.5	-	-	5123

4612/9



LRS, Vallabhnagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
05-10-2012	4176	1957 set 18	-	1964.7	-	-	239

4617/9



LRS, Vallabhnagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
26-10-2012	4330	1957	-	2055.0	-	-	

4633/9



LRS, Vallabhnagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
08-04-2013	4194	1952 set 2	-	1895.0	-	-	6929

4647/9



LRS, Vallabhnagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
17-11-2013	4446	4264 set 18	-	2091.6	-	-	2605

4648/9



LRS, Vallabhnagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
20-11-2013	4434	4264 set 18	-	1897.0	-	-	9139

4712/10



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
31-10-2015	4446	1950 set 2	-	2091.6	-	-	3542



LRS, Vallabh Nagar



4728/10

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
09-09-2016	4430	1948 PT set 1	-	1742.6	-	-	3565

4764/10



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
06-10-2017	4613	1955 PT set 3	-	1628.0	-	-	2459



LRS, Vallabh Nagar



4765/10

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
11-10-2017	4520	1963 PT set 3	-	2061.4	-	-	1183

4768/10



LRS, Vallabh Nagar

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
25-10-2017	4405	1955 PT set 3	-	1856.5	-	-	1214



LRS, Vallabh Nagar



4772/10

Date of Birth	Dam	Sire	Dam's first lactation 305-days yield (kg)	Dam's best lactation 305-days yield (kg)	Dam's peak yield (kg)	Dam's age at first calving (months)	No. of semen doses available
23-11-2017	4482	1950 PT set 2	-	2070.8	-	-	2164

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