OPERATIONAL DATA OF THE COMPANY'S SUGAR DIVISION FOR THE SEASON :2012/2013
Range: SAMALKOT

Final Manufacturing Report — Range: SAMALKOT
For the Season: 2012-13
Name & Address of Factory : NAVA BHARAT VENTURES LTD, Sugar Division,Samalkot-533 440, East Godavari District.
Regd. No. of Factory 3013
Clarification Process Used: Double Sulphitation

Sl.	PARTICULARS		THIS SEASON	LAST SEASON
1	**TIME ACCOUNT**			
	Date of Start		24.11.2012	30.11.2011
	Date of finish		29.03.2013	12.04.2012
	Gross Season (days) (f)		126	135
	Duration of season (days) (g)		128.3	134.5
	Total hours actual crushing		2822.25	2958.50
	Total hours lost		177.20	254.40
	i) Cane Shortage		8.00	5.00
	ii) Mechanical & Electrical		5.25	9.00
	iii) Miscellaneous (Cleaning etc.)		163.55	240.40
2	**CANE CRUSHED:**			
	Own Estate cane	Qtls	1458.28	2301.15
	Gate cane	Qtls	4073461.22	4119174.45
	Outstation cane (a)	Qtls	0	0
	Rail Cane	Qtls	0	0
	Other than Rail cane	Qtls	0	0
	Total	Qtls	4074919.5	4121475.6
3	**Juice & Added Water:**			
	Average gross mixed juice % cane		106.35	105.10
	Correction % mixed juice		0.5300	0.4920
	Average net mixed juice % cane		105.79	104.58
	Total net mixed juice obtained (qtls)		4310741.32	4310317.56
	Average added water % cane		34.02	32.94
4	**SUGARS:**			
	Total Sugar bagged (no. of bags) 50 K.Gs		609800	484860
	No. of bags - White 100 K.Gs		99180	170200
	* Brown	Qtls	980	1500
	Quantity	Qtls	405060	414130
	Sugar in process, if any	Qtls	94.181	187.716
	Total sugar made	Qtls	405154.181	414317.716
	Sugar recovered from previous season's process - scraping	Qtls	196.904	197.886
	Sugar from previous season's remelted sugar or other sources	Qtls	1282.819	850.373
	Sugar from remelting wet & damaged white sugar	Qtls	230.973	0
	Total Net. Sugar made	Qtls	403443.485	413269.457
	* Qty. of C.Sugar (Residual Sugars of Season) left over stock of above 90% Sucrose.			

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Sl.	PARTICULARS		THIS SEASON	LAST SEASON
5	**MOLASSES:**			
	Total molasses sent out Qtls		167347.6	166953.1
	Molasses in process, if any Qtls		51.574	104.389
	Total Molasses produced Qtls		167399.174	167057.489
	Molasses recovered from previous season's processQtls		83.074	86.298
	Molasses from previous season's remelted sugar or other sources Qtls		219.234	141.842
	Molasses from wet&damaged sugar Qtls		3.742	0
	Total Net Molasses produced Qtls		167093.124	166829.349
6	**RECOVERY:**			
	Average recovery of sugar % cane		9.90	10.03
	Average production of final molasses % cane		4.1	4.05
7	**Bagasse % cane (E)**		27.67	27.84
	Filter cake % cane		3.60	3.61
8	**Stores Used**			
	Firewood % cane		0	0
	Lime % cane (Process)		0.177	0.166
	(Spray pond)		0.02	0.02
	Sulphur % cane		0.068	0.056
	Lubricants, Oils & Greases	Greases(Kgs.)	0.0215	0.0226
	per 100 qtls. of cane	Oils (lts.)	0.3021	0.3299
	Gunny Bags for Sugar	No. per 100 Q. Cane (100kg)	3.04	5.05
	Washing soda Kg. per	100Qtls Cane	0.0736	0.099
	Caustic soda Kg. per	100 Q.Cane (D.M.Pla	0.8855	0.8298
	Hydro chloric acid	Kg.per 100 Q.Cane	0.452	0.4489
	Flocuulant Juice	Kg.per 100 Q.Cane	0.0276	0.0237
	Anti scalant	Kg.per 100 Q.Cane	0.0834	0.0752
	Alkalinity booster	Kg.per 100 Q.Cane	0.0086	0.0073
	Oxygen scavenger	Kg.per 100 Q.Cane	0.0011	0.0024
	TSP	Kg.per 100 Q.Cane	0.0049	0.0026
	Mill sanitation chemical	Kg.per 100 Q.Cane	0.0663	0.0633
	Scale Softener	Kg.per 100 Q.Cane	0.1669	0.0776
	Phosphoric acid	Kg.per 100 Q.Cane	0.2741	0.3118
	Antifoam oil	Kg.per 100 Q.Cane	0.0871	0.0898
	Flocuulant syrup	Kg.per 100 Q.Cane	0.0098	0.0115
	Ferric /Non ferric alum	Kg.per 100 Q.Cane	0.0953	0.108
9	**ANALYSIS = **C**			
	Cane	Sugar percent	11.63	11.79
		Fibre percent	13.47	13.82
	Primary juice	Sugar percent	13.75	13.92
		Brix percent	16.74	16.93
		Purity	82.14	82.22
	Mixed juice	Sugar percent	10.537	10.839
		Brix percent	13.025	13.348
		Purity	80.90	81.2
	Last juice	Sugar percent	1.33	1.7
		Brix percent	1.86	2.38
		Purity	71.51	71.43



Sl.	PARTICULARS		THIS SEASON	LAST SEASON
	Clarified Juice	Sugar Percent	10.537	10.893
		Brix percent	13.00	13.39
		Purity	81.05	81.35
	UnSulphered Syrup	Sugar Percent	49.24	50.75
		Brix percent	60.81	62.33
		Purity	80.97	81.42
	Sulphered Syrup	Sugar Percent	49.52	51.09
		Brix percent	61.02	62.6
		Purity	81.15	81.61
	Massecuite A	Brix percent	92.63	91.93
		Purity	87.29	87.68
	Massecuite B	Brix percent	95.87	95.59
		Purity	71.35	72.43
	Massecuite C	Brix percent	99.06	98.84
		Purity	51.75	52.41
	Molasses ©			
	A Heavy	Brix percent	80.63	79.62
		Purity	71.38	72.78
	A Light	Brix percent	71.02	69.58
		Purity	90.34	90.74
	B Heavy	Brix percent	85.99	83.67
		Purity	48.15	49.56
	C Light	Brix percent	76.83	77.54
		Purity	64.13	64.84
	Sugars (Average)	Sugar percent (C)	99.8	99.8
		Moisture percent	0.04	0.04
	Final Molasses	Sugar percent	27.90	29.20
		Brix percent	91.78	93.94
		Purity	30.4	31.09
	Bagasse	Sugar percent	1.76	1.66
		Water percent	48.88	48.04
		Fibre percent	48.66	49.63
	Filter Cake	Sugar percent	2.23	2.77
	Boiler Feed Water pH		9.0	9.0
		Temperature	105	105
	Temperature of Clear Juice øC		96	96
10	**MILL EXTRACTION, BOILING HOUSE EXTRACTION AND OVERALL EXTRACTION**			
	Mill Extraction		95.82	96.09
	Reduced Mill Extraction		96.16	96.51
	Boiling house Extraction		88.82	88.46
	Reduced Boiling house Extraction		91.76	91.28
	Overall Extraction		85.10	84.99
	Reduced Overall Extraction		88.23	88.09



Sl.	PARTICULARS		THIS SEASON	LAST SEASON
11	SUGAR BALANCE			
	1. Sugar in cane		11.63	11.79
	2. Sugar in mixed juice		11.14	11.33
	3. Sugar in Baggase		0.49	0.46
	4. Sugar in Filtercake		0.08	0.10
	5. Sugar in Molasses		1.14	1.18
	6. Sugar in Sugars		9.88	10.01
	7. Sugar Undetermined		0.04	0.04
	8. Total losses (in bagasse, filter cake molasses & undetermined)		1.75	1.78
	AREA AND YIELD OF CANE IN FACTORY FARM			
	Total area of farm	Acres	62.45	62.45
	Area under cane	Acres	13.00	13.00
	Area supplied to factory	Acres	8.00	10.45
	Production of cane	Qtls	1672.3	2600
	Average yield per acre	Qtls	209	248.8
	Variety a) Plant	Acres	-	6.00
	b) Ratoon	Acres	8.00	7.00

N. Prabhakar
VICE PRESIDENT

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ADDITIONAL INFORMATION

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	2012-13	2011-12
1. Mill extraction	95.82	96.09
2. Boiling House extraction	88.69	88.46
3. Overall extraction	84.98	84.99
4. Reduced Mill extraction	96.16	96.51
5. Undiluted juice lost % fibre	30.2	27.7
6. Virtual purity of waste molasses	32.39	33.08
7. Reduced boiling house extraction		
a) Gundu Rao	91.25	90.98
b) Noel Deerr	91.55	91.28
8. Reduced overall extraction		
a) Gundu Rao	87.75	87.81
b) Noel Deerr	88.03	88.09
9. Added water % fibre	252.66	238.38
10. Added water extracted in MJ % added water	70.58	68.82
11. Clarification Factor	1.65	1.79
12. Rate of Crushing for 24 Hrs:		
1) Including stoppages Tons.	3261	3078
2) Excluding stoppages Tons	3465	3343
13. E.R.Q.V. - MJ/PJ	97.28	97.86
LMJ/PJ	80.16	79.89
14. Grades of Sugar bagged: (Percentage of production)		
ISS S-29		
S-30/S31	49.49	45.05
M-30/M-31	50.51	54.95
L30/L-31		
Total	100.00	100.00
15. Massecuites % Cane		
"A" Massecuite % cane	22.77	23.07
"B" Massecuite % cane	13.43	13.61
"C" Massecuite % cane	7.79	7.89
Total	43.99	44.57

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