| PT. Perkeb. Nusantara X | | LAROE | RAN HARIAN PROD | IIVCI | Tanggal: | 31 -J | ul-21 |
|---|-----------------|-------------------|---------------------|------------------------------------|--------------------|-------------------|----------------|
| PG. Meritjan | | | IAN HARIAN PROD | | Hari ke : | | 36 |
| URAIAN | Hari ini | Periode | Total | URAIAN | Hari ini | Periode | Total |
| I. BAHAN BAKU TEBU | | | | - Diesel, kwh | - | - | - |
| 1 Tebu masuk, ton | 1.711,8 | 17.721,1 | 62.604,9 | - Turbin Alternator, kwh | 58.000 6.808 | 437.926 52.682 | 1.364.778 |
| - Tebu Sendiri - Tebu Rakyat | 33,2 1.678,6 | 370,8 17.350,3 | 1.550,1 61.054,8 | - PLN, kwh 49 Batu bara | 0.808 | 52.082 | 180.515 |
| 2 Tebu digiling, ton | 2.308,0 | 18.524,7 | 62.523,2 | - tiap 100 ton tebu | _ | _ | _ |
| 3 Sisa hari ini, ton | 2.300,0 | 10.02 1,7 | 81,7 | - Persediaan | | | - |
| 4 Kesgrn tebu ≤ 36 jam | 88,01 | 76,35 | 75,86 | 50 Kapur, kg | 2.520 | 22.460 | 78.665 |
| 5 Kadar sabut | 12,67 | 12,34 | 12,63 | - tiap 100 ton tebu | 109,19 | 121,24 | 125,82 |
| 6 Kualitas tebu - A | - | - | - | - Persediaan | - | - | 9.495 |
| 7 Kualitas tebu - B | 9,54 | 11,59 | 10,36 | 51 Belerang, kg | 1.200 | 10.350 | 35.550 |
| 8 Kualitas tebu - C | 53,39 | 46,19 | 45,89 | - tiap 100 ton tebu | 51,99 | 55,87 | 56,86 |
| 9 Kualitas tebu - D | 37,07 | 42,13 | 43,68 | - Persediaan | | | 21.245 |
| 10 Kualitas tebu - E | - | 0,09 | 0,07 | 52 Phosphat, kg | 245 | 1.995 | 6.860 |
| II. PRODUKSI | 150.40 | 1 215 20 | 2 602 20 | - tiap 100 ton tebu | 10,62 | 10,77 | 10,97 6.495 |
| 11 Gula dikemas - % tebu | 150,40 6,52 | 1.215,30 6,56 | 3.692,30 5,91 | - Persediaan Soda coustic, kg | 200 | 1.800 | 6.495 |
| 12 Gula dalam proses | (5,54) | (53,61) | 283,55 | - tiap 100 ton tebu | 8,67 | 9,72 | 9,76 |
| 13 Warna / Icumsa | 282,23 | 284,2 | 282,33 | - Persediaan | 5,07 | 3,72 | 11.900 |
| 14 Kadar air | 0,05 | 0,05 | 0,05 | 53 Floculant/nalco, kg | 6 | 49 | 179 |
| 15 Persed. GKP incl. Stock | -, | ,,,,, | 2.401,40 | - tiap 100 ton tebu | 0,26 | 0,26 | 0,29 |
| Stock opname | | | - | - Persediaan | | | 266 |
| 16 Produksi tetes | 119,000 | 1.120,300 | 2.898,100 | Surfactan, kg | - | - | - |
| Stock opname | | | 28,680 | - tiap 100 ton tebu | - | - | - |
| 17 Persediaan tetes | | | 1.507,480 | - Persediaan | | | - |
| III. KAPASITAS & KOMPONEN % TEBU | | | | 54 Biocide, kg | - | - | - |
| 18 Imbibisi % tebu | 29,56 | 26,83 | 26,67 | - tiap 100 ton tebu | - | - | - |
| 19 Imbibisi % sabut | 233 | 217 | 211 | - Persediaan | | | - |
| 20 Nira mentah % tebu | 100,97 | 98,75 | 98,00 | VIII. DATA ANALISA | | | |
| 21 Ampas % tebu | 28,54 | 28,03 | 28,62 | 55 Nira gilingan I / NPP | 14.0053 | 44.00 | 45.04 |
| 22 Blotong % tebu | 2,32 | 1,82 | 2,02 | - % brix | 14,8863 | 14,98 | 15,01 |
| 23 Jam giling efektif 24 Kec. giling ton/jam | 24,00 96,2 | 189,25 97,9 | 660,83 94,6 | - % pol - H K | 11,2747 75,7389 | 11,33 75,6 | 11,31 75,4 |
| 25 Effeisiensi waktu | 100,00 | 95,34 | 78,38 | - pH | 5,2 | 5,2 | 75,4 5,2 |
| IV. EFFISIENSI BOILLER | 100,00 | 33,34 | 70,30 | - Gula reduksi % brix | 14,53 | 14,21 | 14,10 |
| 26 Effisiensi boiller | 66,27 | 66,32 | 65,60 | - Dextran | 433 | 450 | 433 |
| 27 kcal bhn bkr/kg tebu | 324,13 | 316,55 | 320,06 | - P2O5 | 173 | 171 | 176 |
| 28 Uap % tebu | 48,01 | 46,08 | 44,46 | - icumsa | 27.724 | 26.761 | 26.909 |
| 29 Tek. Uap baru | 17,83 | 17,71 | 17,54 | - P I | - | 87,8 | 87,5 |
| 30 Tek. Uap bekas | 0,36 | 0,34 | 0,32 | 56 Nira mentah | | | |
| V. KINERJA | | | | - % brix | 10,8523 | 11,13 | 11,23 |
| 31 Pol tebu | 8,73 | 8,78 | 8,76 | - % pol | 8,0438 | 8,25 | 8,29 |
| 32 Ekstraksi pol (HPG) | 93,01 | 92,86 | 92,82 | - H K | 74,1202 | 74,2 | 73,9 |
| 33 Eff. Proses (BHR) | 77,16 | 76,83 | 78,11 | - pH | 5,8 | 5,8 | 5,8 |
| 34 Ekstraksi direduksi | 93,11 | 92,75 | 92,90 | - Gula reduksi % brix | 21,13 | 20,37 | 20,16 |
| 35 BHR direduksi | 86,86 | 86,31 | 87,84 | - Dextran | 517 | 558 | 555 |
| 36 Overall Recovery | 71,77 | 71,34 | 72,50 | - P2O5 | 256 | 258 | 256 |
| 37 T C T S (gross) VI. KEHILANGAN GULA % TEBU | 15,93 | 15,95 | 15,73 | - icumsa 57 Nira gilingan akhir | 28.560 | 28.516 | 29.258 |
| 38 Dalam ampas | 0,61 | 0,63 | 0,63 | - % brix | 2,1643 | 2,27 | 2,32 |
| 39 Dalam blotong | 0,06 | 0,05 | 0,06 | - % pol | 1,4339 | 1,51 | 1,54 |
| 40 Dalam tetes | 1,75 | 1,83 | 1,56 | - H K | 66,25 | 66,3 | 66,4 |
| 41 Hil tak diketahui | 0,04 | 0,01 | 0,16 | 58 Nira encer | | 20,0 | 35, 7 |
| 42 Hilang total | 2,47 | 2,52 | 2,41 | - % brix | 11,18 | 11,20 | 11,19 |
| VII. PEMAK. BB & BPP | | | | - % pol | 8,18 | 8,49 | 8,46 |
| 43 Residu | - | - | - | - H K | 73,2 | 75,8 | 75,6 |
| - tiap 100 ton tebu | - | - | - | - pH | 6,8 | 6,8 | 6,8 |
| - Persediaan | | | - | - Gula reduksi % brix | 16,23 | 15,73 | 15,80 |
| 44 Solar | - | 2.428,0 | 10.617,0 | - Dextran | 287 | 300 | 299 |
| - tiap 100 ton tebu | - | 13,11 | 16,98 | - Turbidity | 100 | 96 | 96 |
| - untuk diesel | - | - | | - Kadar kapur | 1.013 | 993 | 977 |
| - untuk loder | - | 1.966 | 6.299 | - P2O5 | 70 | 71 | 71 |
| - untuk traktor | - | 447 | 2.245 | - icumsa | 23.515 | 23.121 | 23.796 |
| - untuk steam tes, dll - Persediaan | · | 15 | 73 4.876,00 | 59 Nira Kental - % brix | 58,12 | 58,27 | 58,06 |
| 45 Moulding | _ | _ | 4.876,00 | - % pol | 44,83 | 38,27 44,95 | 44,55 |
| - tiap 100 ton tebu | | - - |] | - % poi - H K | 77,14 | 77,1 | 76,7 |
| - Persediaan | | | _ | - pH | 5,1 | 5,1 | 5,1 |
| 46 Ampas | 658,8 | 5.192,7 | 17.891,3 | - Gula reduksi % brix | 10,03 | 9,79 | 9,91 |
| - tiap 100 ton tebu | 28,54 | 28,03 | 28,62 | - icumsa | 36.177 | 34.207 | 34.940 |
| - Persediaan | -, | -, | 85,880 | 60 Gula Kristal Putih | 150,4 | 1.215,3 | 3.692,3 |
| 47 Kayu bakar | - | - | - | - % tebu | 6,52 | 6,56 | 5,91 |
| - tiap 100 ton tebu | - | - | - | - % brix | 99,96 | 99,96 | 99,96 |
| - Persediaan | | | - | - % pol | 99,85 | 99,85 | 99,85 |
| 48 Listrik | 64.808 | 490.608 | 1.545.293 | - H K | 99,9 | 99,9 | 99,9 |
| - tiap 100 ton tebu | 2.807,97 | 2.648,40 | 2.471,55 | - BJB | 0,94 | 0,95 | 0,95 |
| | | | | | | | |

| C1 Produksi totos ton | | | | 72 Jam berhenti - B | | 0.25 | 20.00 |
|------------------------------|----------------------|----------------------|----------------|---------------------------------------|-----------|--------------|----------------|
| 61 Produksi tetes, ton | F 16 | 6.05 | 4.64 | | - | 9,25 8,75 | 29,08 28,17 |
| - % tebu - % brix | 5,16 86,16 | 6,05 85,37 | 4,64 | Jamti - B1 (Teknik) - St. Gilingan | = | 3,25 | 3,33 |
| | | | 85,44 | _ | - | | |
| - % pol - н к | 31,06 36,05 | 30,44 35,7 | 30,35 35,52 | - St. Boiler - St. Power House | = | 5,50 | 16,92 6,58 |
| - Gula reduksi % brix | 27,59 | 28,41 | 28,38 | - P M P | - | _ | 0,36 |
| 62 Ampas | 27,39 | 20,41 | 20,30 | - Instrumen | | _ | 1,33 |
| - % tebu | 28,54 | 28,03 | 28,62 | - Operasional | | | 1,33 |
| - % pol | 2,1400 | 2,24 | 2,20 | Jamti - B2 (Proses) | | 0,50 | 0,92 |
| - Zat kering | 47,6061 | 47,40 | 47,43 | - St. Pemurnian | _ | | 0,42 |
| - Kadar sabut | 44,38 | 44,02 | 44,13 | - St. Penguapan | _ | _ | - |
| 63 Blotong | ,55 | ,62 | ,25 | - St. Kristalisasi | _ | 0,50 | 0,50 |
| - % tebu | 2,32 | 1,82 | 2,02 | - St. Puteran | _ | - | - |
| - % pol | 2,78 | 2,69 | 2,84 | - P M P | _ | _ | _ |
| - Zat kering | 30,55 | 30,29 | 30,58 | - st. Pengemasan | _ | _ | _ |
| X. LIMBAH | 30,33 | 30,23 | 30,30 | 73 Total jam berhenti | _ | 9,25 | 182,25 |
| 64 Flowrate, m³/jam | _ | _ | _ | 73 % Jamti | _ | 4,66 | 21,62 |
| 65 COD influent, ppm | 167,75 | 161,25 | 157,13 | 75 % Jamti - A | _ | -,50 | 18,17 |
| 66 COD effluent, ppm | | 77,75 | 78,40 | 76 %Jamti - B | _ | 4,66 | 3,45 |
| 67 Suhu effluent, ºC | _ | 26,00 | | XII. PENCAPAIAN KINERJA | Reals.s.d | RKAP | % RKAP |
| 68 pH effluent | _ | 7,47 | 7,44 | 77 Pol tebu | 8,76 | 10,25 | 85,44 |
| 69 Gula dlm air injeksi, ppm | _ | - | | 78 Mill Extraction | 92,82 | 94,07 | 98,67 |
| 70 Gula dim air jatuhan, ppm | _ | _ | _ | 79 Boiling House Recovery | 78,11 | 83,63 | 93,40 |
| XI. JAM BERHENTI | | | | 80 Overal Recovery | 72,50 | 78,00 | 92,95 |
| 71 Jam berhenti - A | _ | _ | 153,17 | 81 Hil dlm ampas | 0,63 | 0,61 | 103,08 |
| - Kurang air | _ | _ | | 82 Hil dlm blotong | 0,06 | 0,06 | 95,61 |
| - BBT telat | _ | _ | 153,17 | 83 Hil dlm tetes | 1,56 | 1,51 | 103,54 |
| - PLN padam | _ | _ | | 84 Hil tak diketahui | 0,16 | 0,07 | 226,27 |
| - Hari raya | _ | _ | _ | 85 Hilang total | 2,41 | 2,25 | 107,02 |
| - Lain-lain | - | _ | _ | 3 3 3 3 | , | , - | , , , |
| | | | | | | | |
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| XIII. URAIAN JAM BERHENTI | | | ! | • | | | |
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| jam berhenti | | | | | = | | jam |

| | | | | PG. Meritjan, 01 August 2021 | | | |
|-------------------------|---------|-----------|-----------|------------------------------------|---------|-----------|----------------|
| Gula MPG | 15,325 | 141,178 | 189,374 | Luas digiling | 33,404 | 265,651 | 859,728 |
| ~ ex TS | 3,9 | 35,757 | 119,5 | ~ TS | 0,567 | 5,248 | 18,984 |
| ~ ex TR D | 12,10 | 123,212 | 83,4 | ~ TR D | 21,217 | 137,356 | 513,376 |
| ~ ex TRM LL | -0,66 | (17,792) | -13,5 | ~ TRM LL | 11,620 | 123,047 | 327,368 |
| ~ subsidi | - | - | - | | | | |
| Gula MPTR | 135,075 | 1.074,122 | 3.502,926 | | | | |
| ~ ex TR D | 64,9 | 433,519 | 1.717,8 | | | | |
| ~ ex TRM LL | 36,23 | 408,393 | 1.170,7 | | | | |
| ~ Total kompensasi | 33,98 | 232,210 | 614,436 | | | | |
| Gula tertimbang | 150,4 | 1.215,300 | 3.692,30 | | | | |
| Gula MPG ex SPT TR 90% | - | - | - | | | | |
| XIII. METODE JAWA | | | | XIV. TREND GULA REDUKSI % Brix pad | a: | | |
| Nilai nira | 9,83 | 9,87 | 9,83 | Nira perahan pertama | 14,53 | 14,21 | 14,10 |
| Kadar nira tebu | 79,80 | 79,69 | 79,62 | Nira mentah | 21,13 | 20,37 | 20,16 |
| Pot. Rendemen | 7,84 | 7,86 | 7,83 | Nira jernih | 16,23 | 15,73 | 15,80 |
| НРВ І | 65,28 | 64,00 | 65,40 | Nira kental sulfitasi | 10,03 | 9,79 | 9,91 |
| HPB total | 92,24 | 92,08 | 92,08 | Tetes | | | |
| PSHK | 96,57 | 96,89 | 96,84 | XV. INFORMASI GILING | | | |
| Eff. Gilingan | 89,07 | 89,21 | 89,17 | Awal & waktu giling | ' | 19-06-202 | 21 - 06:00 Wib |
| Kristal NM | 161,27 | 1.299,4 | 4.363,6 | Rencana akhir giling | | | |
| Winter Rend. | 89,63 | 89,21 | 90,93 | | | 1 | |
| Eff. Pabrik | 79,84 | 79,58 | 81.08 | XV. PRODUKTIVITAS | | | |
| Fakt. Rendemen | 0,64 | 0,63 | 0,65 | TSAS % NM | 12,02 | 12,00 | 11,87 |
| Fakt. Molasses | 0,564 | 0,554 | 0,5506 | TSAS % ampas | 5,04 | 4,94 | 4,87 |
| Fakt. Gula actual | 1,002 | 1,002 | 1,002 | TSAS % tebu | 13,57 | 13,23 | 13,03 |
| Fakt. Gula teoritis | 0,966 | 0,937 | 0,947 | Eff. Tebang angkut | 64,33 | 66,33 | 67,23 |
| Kaps. Gil. Inclusif | 2.308,0 | 2.239,8 | 1.779,8 | Ha digiling TS | 0,57 | 5,25 | 18,98 |
| Kaps. Gil. Exclusif | 2.308,0 | 2.349,2 | 2.270,7 | Ha digiling TR | 32,84 | 260,40 | 840,744 |
| Rend. Sementara | 6,74 | 7,00 | 7,10 | Tebu digiling TS | 45,3 | 423,7 | 1.550,1 |
| Rend. Effektif | 6,74 | 7,00 | 7,10 | Tebu digiling TR | 2.262,7 | 18.101,0 | 60.973,1 |
| Pol tebu - Total hilang | 6,27 | 6,26 | 6,35 | Hablur Eff. TS | 3,87 | 35,69 | 119,27 |
| Pol tebu x OR | 6,27 | 6,26 | 6,35 | Hablur Eff. TR | 151,75 | 1.261,23 | 4.322,31 |
| Eff pabrik x Pot Rend | 6,26 | 6,26 | 6,35 | Rend. Eff. TS | 8,55 | 8,42 | 7,69 |
| Fakt Rend x NN | 6,26 | 6,26 | 6,35 | Rend. Eff. TR | 6,71 | 6,97 | 7,09 |
| 100/TCTS/Fakt. Gula | 6,26 | 6,26 | 6,35 | Kend. En. TK | 0,71 | 0,57 | 7,03 |
| 100/1013/1488. Guid | 0,20 | 0,20 | 0,33 | <u> </u> | 1 | | |
| Umur tebu, % | I | Т | | Varietas tebu ditebang, % | T 1 | Т | |
| ≤ 10 bulan | 3,33 | 5,19 | 7,19 | Masak awal | 1,62 | 4,86 | 6,67 |
| 10 s.d 12 bulan | 18,52 | 20,18 | 32,21 | Masak tengah | 5,06 | 3,41 | 4,70 |
| ≥ 12 bulan | 78,15 | 74,62 | 57,05 | Masak lambat | 93,33 | 91,73 | 88,63 |
| ≥ 12 Naiaii | | · | | IVIASAK IAITIDAL | | | |
| | 100,00 | 100,00 | 96,45 | | 100,00 | 100,00 | 100,00 |

Quality Assurance & HSE

Satriyo Adinagoro, S.T

TEKPOL

Manajer Quality Assurance & HSE

Manajer Tekpol

KEUANGAN & UMUM

TANAMAN

Nanung Indra Cahyadi, S.E Manajer Keuangan & Umum Ir. Tri Wahyu Raharjo Manajer Tanaman

Mengetahui PT. Perkebunan Nusantara X Pabrik Gula Meritjan

> Sugiharto Bisri, S.T General Manager