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| **LIQUID LIMIT AND PLASTIC LIMIT TEST**LOCATION : LAB. MEKANIKA TANAH DATE : 24 Mei 2018SAMPLE NO : Tanah + 0% Serbuk Keramik + 0% Abu Jerami TESTED BY : Saroha Saut Pasaribu |
| *LIQUID LIMIT TEST* |
| 1 | 2 | 3 |
| NO. OF BLOWS 58 | NO. OF BLOWS 45 | NO. OF BLOWS 34 |
| WW | 19,5483 | gr | DW | 16,8787 | gr | WW | 32,8933 | gr | DW | 25,7393 | gr | WW | 21,9696 | gr | DW | 18,1877 | gr |
| DW | 16,8787 | gr | TW | 10,7462 | gr | DW | 25,7393 | gr | TW | 10,6616 | gr | DW | 18,1877 | gr | TW | 10,7769 | gr |
| w = 43,5320% | w = 47,4476% | w = 51,0323% |
| 4 | 5 | 6 |
| NO. OF BLOWS 29 | NO. OF BLOWS 18 | NO. OF BLOWS 6 |
| WW | 18,5778 | gr | DW | 15,7465 | gr | WW | 17,6781 | gr | DW | 14,9643 | gr | WW | 18,3738 | gr | DW | 15,3194 | gr |
| DW | 15,7465 | gr | TW | 11,0242 | gr | DW | 14,9643 | gr | TW | 10,7747 | gr | DW | 15,3194 | gr | TW | 11,0160 | gr |
| w = 59,9560 % | w = 64,7747 % | w = 70,9764 % |
| *PLASTIC LIMIT TEST* |
| 1 | 2 | 3 |
| WW | 52,5265 | gr | DW |  | gr | WW | 20,3116 | gr | DW | 17,6831 | gr | WW | 44,2284 | gr | DW |  | gr |
| DW | 50,7382 | gr | TW | 44,4905 | gr | DW | 17,6831 | gr | TW | 10,7494 | gr | DW | 41,7967 | gr | TW | 34,0988 | gr |
| w = 28,6233% | w = 37,9091% | w = 31,5891% |
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|  |  |  |  | LIQUID LIMIT =60,0220PLASTIC LIMIT =32,7072PLASTICITY INDEX =27,3148 | %%% |    |
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| SHRINKAGE CONSTANT TEST |
| LOCATION : LAB. MEKANIKA TANAH DATE : 24 Mei 2018 |
| SAMPLE : Tanah + 0% Serbuk Keramik + 0% Abu Jerami TESTED BY : Saroha Saut Pasaribu |
| WW | 43,7883 | gr | DW | 42,2560 | gr | WW | 46,3526 | gr | DW | 44,2585 | gr | (w) RATA- RATA = 40,9150% |
| DW | 42,2560 | gr | TW | 38,5509 | gr | DW | 44,2585 | gr | TW | 39,0845 | gr |
| w = 41,3565 % | w = 40,4735 % |  |



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| **LIQUID LIMIT AND PLASTIC LIMIT TEST**LOCATION : LAB. MEKANIKA TANAH DATE : 24SAMPLE NO : Tanah + 10% Serbuk Keramik + 5% Abu Jerami TESTED BY : Saroha Saut Pasaribu |
| *LIQUID LIMIT TEST* |
| 1 | 2 | 3 |
| NO. OF BLOWS 69 | NO. OF BLOWS 43 | NO. OF BLOWS 31 |
| WW | 23,1153 | gr | DW | 11,3966 | gr | WW | 26,0898 | gr | DW | 20,9016 | gr | WW | 20,8450 | gr | DW | 17,5064 | gr |
| DW | 11,3966 | gr | TW | 11,7349 | gr | DW | 20,9016 | gr | TW | 10,6105 | gr | DW | 17,5064 | gr | TW | 11,0073 | gr |
| w = 48,5362% | w = 50,4144% | w = 51,3702% |
| 4 | 5 | 6 |
| NO. OF BLOWS 23 | NO. OF BLOWS 10 | NO. OF BLOWS 7 |
| WW | 26,9432 | gr | DW | 21,2479 | gr | WW | 27,2955 | gr | DW | 21,4925 | gr | WW | 30,9849 | gr | DW | 23,0112 | gr |
| DW | 21,2479 | gr | TW | 10,7653 | gr | DW | 21,4925 | gr | TW | 11,8578 | gr | DW | 23,0112 | gr | TW | 10,7071 | gr |
| w = 54,3310% | w = 60,2302 % | w = 64,8052 % |
| *PLASTIC LIMIT TEST* |
| 1 | 2 | 3 |
| WW | 14,9432 | gr | DW | 13,7432 | gr | WW | 16,2525 | gr | DW | 14,5450 | gr | WW | 16,2526 | gr | DW | 15,4498 | gr |
| DW | 13,7432 | gr | TW | 10,7344 | gr | DW | 14,5450 | gr | TW | 10,5698 | gr | DW | 15,4498 | gr | TW | 10,7071 | gr |
| w =39,8830 % | w = 42,9538% | w =16,9271 % |
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|  |  |  |  | LIQUID LIMIT =56,2680PLASTIC LIMIT =33,2546PLASTICITY INDEX =23,0134 | %%% |    |
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| SHRINKAGE CONSTANT TEST |
| LOCATION : LAB. MEKANIKA TANAH DATE : 24 Met 2018 |
| SAMPLE : Tanah +10% Serbuk Keramik + 5% Abu Jerami TESTED BY : Saroha Saut Pasaribu |
| WW | 22,1110 | gr | DW | 19,7736 | gr | WW | 22,3006 | gr | DW | 18,7299 | gr | (w) RATA- RATA = 39,4003 % |
| DW | 19,7736 | gr | TW | 11,3931 | gr | DW | 18,7299 | gr | TW | 11,7161 | gr |
| w = 27,8909 % | w = 50,9096 % |  |

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| **LIQUID LIMIT AND PLASTIC LIMIT TEST**LOCATION : LAB. MEKANIKA TANAH DATE : 24 Mei 2018SAMPLE NO : Tanah + 10% Serbuk Keramik + 10% Abu Jerami TESTED BY : Saroha Saut Pasaribu |
| *LIQUID LIMIT TEST* |
| 1 | 2 | 3 |
| NO. OF BLOWS 69 | NO. OF BLOWS 43 | NO. OF BLOWS 34 |
| WW | 16,2344 | gr | DW | 14,5621 | gr | WW | 18,7156 | gr | DW | 16,1048 | gr | WW | 19,8513 | gr | DW | 16,7682 | gr |
| DW | 14,5621 | gr | TW | 10,7542 | gr | DW | 16,1048 | gr | TW | 10,6945 | gr | DW | 16,7682 | gr | TW | 10,8090 | gr |
| w =43,9166 % | w = 48,2561% | w = 51,7368% |
| 4 | 5 | 6 |
| NO. OF BLOWS 16 | NO. OF BLOWS 13 | NO. OF BLOWS 5 |
| WW | 19,7984 | gr | DW | 16,7107 | gr | WW | 22,5668 | gr | DW | 18,2159 | gr | WW | 22,6456 | gr | DW | 18,1211 | gr |
| DW | 16,7107 | gr | TW | 11,0681 | gr | DW | 18,2159 | gr | TW | 10,6582 | gr | DW | 18,1211 | gr | TW | 10,9632 | gr |
| w = 54,7212 % | w = 57,5691 % | w = 63,2099% |
| *PLASTIC LIMIT TEST* |
| 1 | 2 | 3 |
| WW | 17,5474 | gr | DW | 15,8383 | gr | WW | 18,6172 | gr | DW | 16,5562 | gr | WW | 18,2575 | gr | DW | 16,3061 | gr |
| DW | 15,8383 | gr | TW | 10,9734 | gr | DW | 16,5562 | gr | TW | 10,758 | gr | DW | 16,3061 | gr | TW | 11,0582 | gr |
| w = 35,1312% | w = 35,5504% | w = 37,1844% |
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|  |  |  |  | LIQUID LIMIT =54,6155PLASTIC LIMIT =35,9554PLASTICITY INDEX=18,6601 | %%% |    |
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| SHRINKAGE CONSTANT TEST |
| LOCATION : LAB. MEKANIKA TANAH DATE : 24 Mei 2018 |
| SAMPLE :Tanah + 10% Serbuk Keramik + 10% Abu Jerami TESTED BY : Saroha Saut Pasaribu |
| WW | 15,3810 | gr | DW | 14,0993 | gr | WW | 15,3627 | gr | DW | 14,9901 | gr | (w) RATA- RATA =29,2098 % |
| DW | 14,0993 | gr | TW | 11,0582 | gr | DW | 14,9901 | gr | TW | 12,7005 | gr |
| w = 42,1459% | w = 16,2736 % |  |

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| **LIQUID LIMIT AND PLASTIC LIMIT TEST**LOCATION : LAB. MEKANIKA TANAH DATE : 24 Mei 2018SAMPLE NO : Tanah + 10% Serbuk Keramik + 15% Abu Jerami TESTED BY : Saroha Saut Pasaribu |
| *LIQUID LIMIT TEST* |
| 1 | 2 | 3 |
| NO. OF BLOWS 67 | NO. OF BLOWS 42 | NO. OF BLOWS 27 |
| WW | 16,2334 | gr | DW | 14,5264 | gr | WW | 17,0718 | gr | DW | 15,0643 | gr | WW | 17,6866 | gr | DW | 15,3569 | gr |
| DW | 14,5264 | gr | TW | 10,6806 | gr | DW | 15,0643 | gr | TW | 10,9351 | gr | DW | 15,3569 | gr | TW | 10,6150 | gr |
| w =44,3821 % | w =48,6172 % | w = 49,1301% |
| 4 | 5 | 6 |
| NO. OF BLOWS 20 | NO. OF BLOWS 13 | NO. OF BLOWS 5 |
| WW | 16,0811 | gr | DW | 14,3133 | gr | WW | 15,1260 | gr | DW | 13,5433 | gr | WW | 17,1888 | gr | DW | 14,7392 | gr |
| DW | 14,3133 | gr | TW | 10,7685 | gr | DW | 13,5433 | gr | TW | 10,6250 | gr | DW | 14,7392 | gr | TW | 10,7067 | gr |
| w = 49,8702 % | w = 54,2336 % | w = 60,7464 % |
| *PLASTIC LIMIT TEST* |
| 1 | 2 | 3 |
| WW | 18,3811 | gr | DW | 16,2192 | gr | WW | 20,2315 | gr | DW | 17,4564 | gr | WW | 20,9323 | gr | DW | 18,1098 | gr |
| DW | 16,2192 | gr | TW | 10,5673 | gr | DW | 17,4564 | gr | TW | 10,3636 | gr | DW | 18,1098 | gr | TW | 11,0909 | gr |
| w = 38,2509% | w = 39,1256% | w =40,2129 % |
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|  |  |  |  | LIQUID LIMIT =52,0400PLASTIC LIMIT =39,1964PLASTICITY INDEX=12,8436 | %%% |    |
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| SHRINKAGE CONSTANT TEST |
| LOCATION : LAB. MEKANIKA TANAH DATE : 24 Mei 2018 |
| SAMPLE :Tanah + 10% Serbuk Keramik + 15% Abu Jerami TESTED BY : Saroha Saut Pasaribu |
| WW | 21,3583 | gr | DW | 19,0297 | gr | WW | 19,7708 | gr | DW | 17,9627 | gr | (w) RATA- RATA = 27,8325 % |
| DW | 19,0297 | gr | TW | 11,0919 | gr | DW | 17,9627 | gr | TW | 11,0955 | gr |
| w = 29,3356 % | w = 26,3295 % |  |

