

Quick Reference of Soil Profile Description (2022)



(1) Matrix Colour		(3) Texture (Refer DoA field texture guidelines)			(5) Consistence				
<u>Hue/Value/Chroma</u> *Gley Colour Value/Chroma 5/1, 6/1, 6/2, 7/1, 7/2, 8/1,8/2					Dry	Moist	Wet		
(2) Mottle colour							Stickiness	Plasticity	
<u>Hue/Value/Chroma</u> <u>Quantity</u> Few <5% Common 5-15% Many >15 - 40% Abundant >40% <u>Size</u> V.Fine <2 mm Fine 2 - 6 mm Medium 6 -20 mm Cooarse >20 mm <u>Contrast</u> Faint Distinct Prominent <u>Boundary</u> Sharp < 0.5 mm Clear 0.5 - 2.0 mm Diffuse > 2.0 mm *Jarosite Colour 2.5Y or Yellower Chroma ≥ 6					Loose Soft Slightly hard Hard Very hard Extr. hard	Loose Very friable Friable Firm Very firm Extr. firm	Non-sticky Slightly sticky Sticky V. sticky	Non-plastic Slightly plastic Plastic V. plastic	
		(4) Structure							(6) Stones and gravels
		<u>Type</u> No, massive No, Single grain Granular Angular Subangular Prismatic		<u>Grade</u> Weak Moderate Strong		<u>Type</u> No gravel Laterite Laterised PM Manganese Quartz Plinthite		<u>Quantity</u> None Few <5% Common 5-15% Many 15-40% Abundant 40-80% Dominant >80%	
		<u>Size (mm)</u>	Granular /Platy	Prismatic/ Columnar	SAB/AB				
		Very fine/thin Fine/thin Medium Coarse/thick Very coarse/thick Extremely coarse	<1 1-2 2-5 5-10 >10 -	<10 10-20 20-50 50-100 100-500 >500	<5 5-10 10-20 20-50 >50 -	<u>Shape</u> Angular Subangular Subrounded Rounded		<u>Size</u> Gravel: a) Fine gravel – 0.2-0.6 cm b) Medium gravel – 0.6-2 cm c) Coarse gravel – 2-6 cm Stones – 6-20 cm Boulders – 20-60 cm Large boulders > 60 cm	
(7) Clay cutan		(8) Pores (Quantity)			(9) Roots (Quantity /Decimeter)				
		<2mm	>2mm		<2mm	>2mm			
None Few <5% Common - 5-15% Many >15-40% Abundant 40-80% Dominant - >80% <u>Contrast</u> Faint Distinct Prominent		None V.few 1-20 Few – 20-50 Common– 50-200 Many >200		None V.few 1-2 Few – 2-5 Common – 5-20 Many >20	None V.few <20 Few 20-50 Common - 50-200 Many >200		None V.few 1-2 Few – 2-5 Common – 5-20 Many >20		
		<u>Size</u> V.Fine < 0.5 mm Fine < 0.5 - 2 mm Medium 2-5 mm Coarse 5 – 20 mm V.coarse > 20 mm			<u>Size</u> V.Fine < 0.5 mm Fine < 0.5 - 2 mm Medium 2-5 mm Coarse > 5 mm				
(10) Others (artifacts, charcoal, mica, etc)		(11) Horizon boundary			Note				
		Distinctness		Topography					
Refer FAO Guidelines For Soil Description		Abrupt -< 2 cm Clear - 2-5 cm Gradual - 5-15 cm Diffuse - >15 cm		Smooth Wavy Irregular Broken					