	Level Crossing Tools to Purchase FY2024/Z5						
Item No.	Name of the tool	Quantity (no.)	Specification (Physical qualities: size, weight, height, materail type)	Function of the tool	Training How to use the product	Sketches	
		ζ, (,	7	Discipline: Level Crossing	required (Yes/No)		
1	2m Wooden metric folding ruler (non-conductive)	1	Folding Buler, Material must be wooden, Measurement units in millimetre, mm).	Metric measurements of distances between two positions/points in millimeters spaced very close. E.g. measuring the space in man between the rail and level crossing block (i.e., between the rail and evel crossing block (i.e., between the field face (F) and gauge face (g) of the rail and the edge of the level crossing block. Sketch shown	No	Field side nati grinding space — Flange eaty Level crossing surface in section	
2	Digital inclinometer or clinometer	1	Product weight not more than 500m, product size/dimension not more than 100 mm x 50 mm x 50 mm, x 50 mm x 30 mm and simple display and strong sense of science and technology Automatically switch the screen full-trust switching (angle and slope, "and xi), Sensitive response, accurate detection, accuracy to 0.1", Lock the data. The following data is rutul measurement, have battery and must be rechargeable, with strong magnets on all sides, Angle detection, Spec detection, Verei detection, working temperature range O'T. to *50°T. Working hours to be more than 4th at 8 mm. Auto Power Off.	Measures the grade or angle of slope/tilt, elevation/depression of the road surface or an object with respect to gravity. The resulting measurement must be in percentage (%).	Yes		
3	Measuring Wheel (non- conductive)	1	Folding design, foldable measuring wheel, Weight not more than 2.5kg, Wheel diameter 20 to 35 cm, height between 45cm - 60 cm, Material: Plastic Rubber, Accuracy/Tolerance: < 0.25 %.	Professional surveying and measuring of distance between positions in rail/road engineering environment.	No		
4	Ultra Sonic Wire height measurement (non-conductive)	1	Product: Cable height meter, Working temperature range up to 40/30°C. Measurement units in meters and firm if a valided, to 40/30°C. Measurement units in meters and firm if a valided, to 10 miles of the control of th	Measure the height of the contact wire in relation to the rail crown height and the height gauge wire height in relation to the road surface.	Yes		
5	Digital stopwatch timer	1	Product measurement units in seconds (sect, Very light (not more than 0.05%) and have role to carry along the neck, not more than the following dimensions (W x D x H) mm 80 x 30 x 30, Measuring capacity not less than hr: min: sec 125-959, equiped with a cousts claim (res), Colour of the device not to be red or green for railways safety operations, prefereble a black digital stopwark, working temperature: O'C to 5-90°.	Determine time spent	No		
6	Digital laser distance meter (horizontal measurement)	1	High accuracy Laser distance, determine horizontal distance of up to 500 metres (maximum horizontal measurable distance of 500m), Light weight device, energy saving battery (benefits if it is rechargable), +/-Imm accuracy, Low battery indicator, working temperature: 0°C to ±50°C, Colour of the device not to be red or green for railways safety operations.	Mesuring horizontal distance in metres from one position to another for up to or than 500 meters	Yes		
7	Digital track gauge and superelevation measuring device (for a 1067mm railway/track gauge)	1	Must be able to be used on a 1057mm or 1055mm anilway track obminately used in 500ml Afficiar anilway. Materiali must be waterprofield, fully insulated (non-conductive), light carry case, rechargeable battery and must be able to display; the measured readings on the screen (e.g., alectric (column G), Low battery indicator, residing accuracy up to 505 mm. Using 1057mm at the permissible gauge, track gauge must be able to measure beyond Cardiago and the column of the permissible gauge. Track gauge must be able to measure beyond Cardiago and the column of the	Used for measuring the track gauge and superelevation measurements of the track (i.e., at the level crossings, to determine the gauge and supervevation of the track) with reference to Field Sheet 7 found in Anneaure A, level crossing Physical Assessment, level crossing stsmdards, SANS 3000 2-2-1.2021.	Yes	X-level \46.6mm Gauge 1427.8mm	