2. (a) Draw *divided proportional circles* to show the land use pattern of the given Blocks of Jalpaiguri District on the basis of the following data :

Name of Block	Irrigated Area in Sq. km.	Unirrigated Area in Sq. km.	Culturable Waste in Sq. km.	Area not Available for Cultivation in Sq. km.
RAJGANJ	3,927	5,948	7,031	11,069
MAL	2,164	2,099	3,293	5,620
KALCHINI	5,833	9,367	8,154	7,796

Calculation Table for Divided proportional circles

SL. NO.	Name of the Blocks	Total Area (in Sq. Km)	$r = \sqrt{\dfrac{\text{Total Area}}{\pi}}$	r in Scale 1cm ≡ 60 UNIT	Individual Degree Value			
					Irrigated Area	Unirrigated Area	Culturable Area	Area not available
1.	Rajgonj	27975	94.3648	1.572	50°32'	76°32'	90°29'	142°27'
2.	Mal	13176	64.7614	1.079	59°7'	57°21'	89°53'	153°54'
3.	Kalchini	31150	99.5758	1.659	67°25'	108°15'	94°14'	90°6'

Calculation Table for graphical Scale

SL. no.	Total Area (in Sqr. Km)	$r = \sqrt{\dfrac{\text{Total Area}}{\pi}}$	r in Scale 1 cm ≡ 60 UNIT
1.	32000	100.925	1.682
2.	22500	84.628	1.410
3.	13000	64.327	1.072

Example

i) $\pi r^2 = $ Total Area

$r^2 = \dfrac{\text{Total Area}}{\pi}$

$r = \sqrt{\dfrac{27975}{\pi}}$

$= 94.3648$

ii) Total Land $= 360°$

individual land (in degree)

$= \dfrac{360°}{\text{total land}} \times$ individual

$= \dfrac{360°}{27975} \times 3927$

$= 50°32'$

WEST BENGAL
DISTRICT - JALPAIGURI

DIVIDED PROPORTIONAL CIRCLES
SHOWING

THE LANDUSE PATTERN OF THE GIVEN BLOCK OF
JALPAIGURI DISTRICT

NAGRAKATA

MADARIHAT

KALCHINI   KUMARGRAM

KALIMPONG

DHUPGURI   FALAKATA

JALPAIGURI

MAYNAGURI   ALIPURDUAR I

ALIPURDUAR
II

GRAPHICAL SCALE
TOTAL AREA IN SQ KM

30000
20000
12000

INDEX

IRRIGATED
AREA

UNIRRIGATED
AREA

CULTURABLE
AREA

AREA NOT
AVAILABLE

SCALE