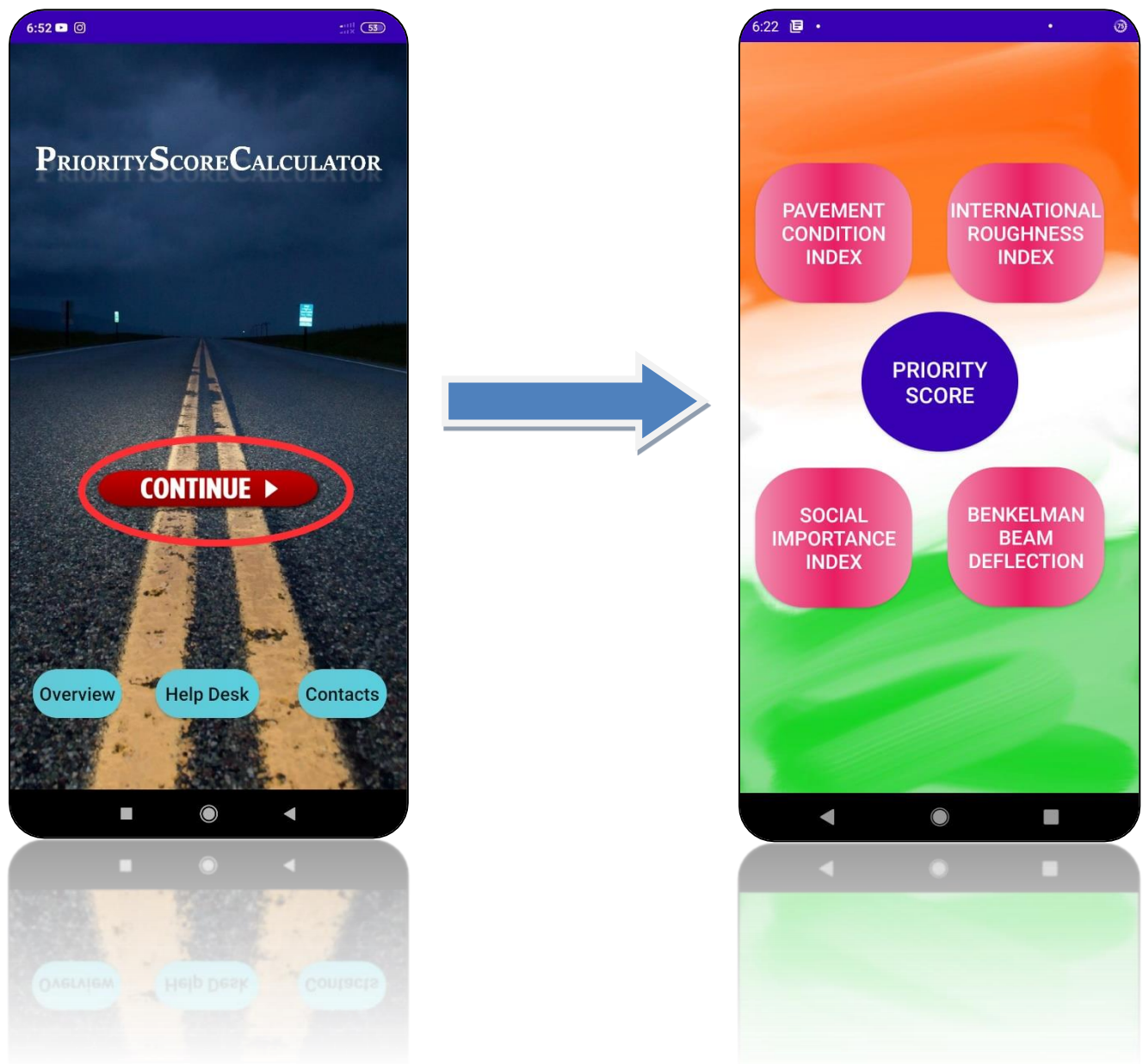
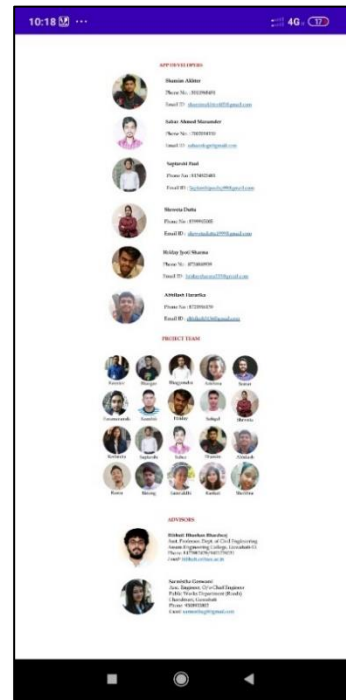


Manual for Users to Calculate the Priority Score for a Particular Road Section

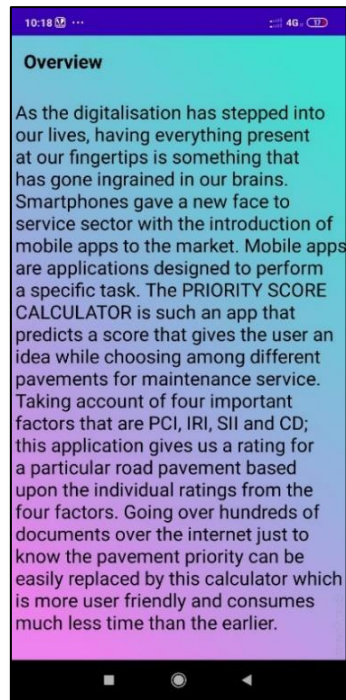
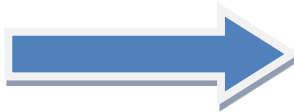
Open the Application and tap **CONTINUE** to move to the **Main Menu**



Tap **CONTACTS** to get into the contact list

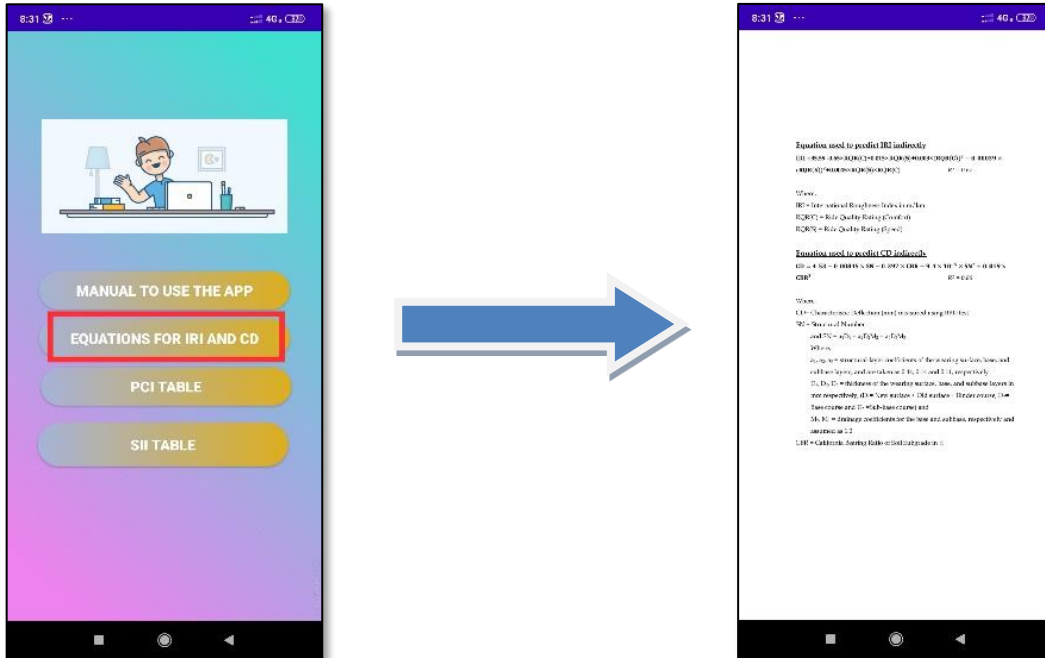


Tap **OVERVIEW** to know the app metrics

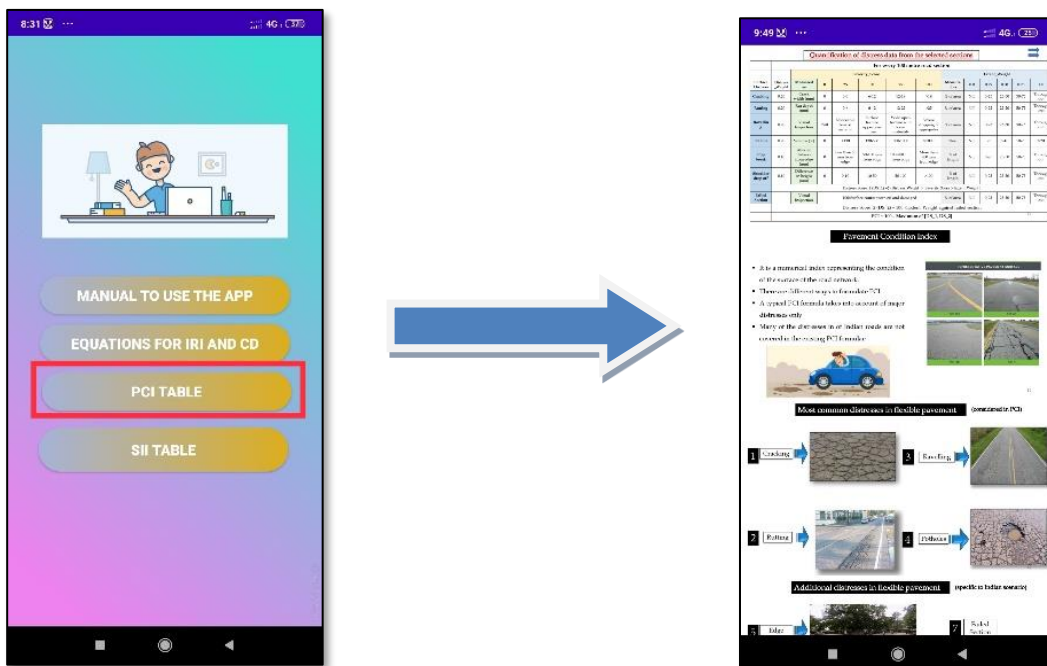


HELP DESK

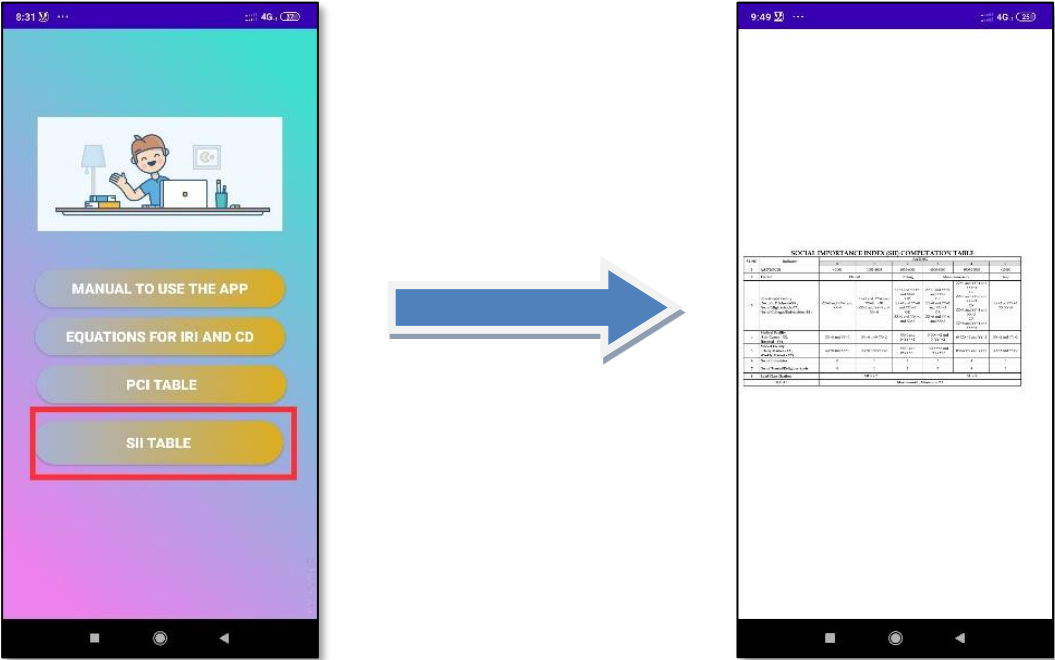
Equations for IRI and CD will provide you the formulae used in evaluating its value



PCI TABLE will provide you the details about Distresses, Severity Score, Extent Weight and the formulae correlated



SII TABLE will provide you the rating details

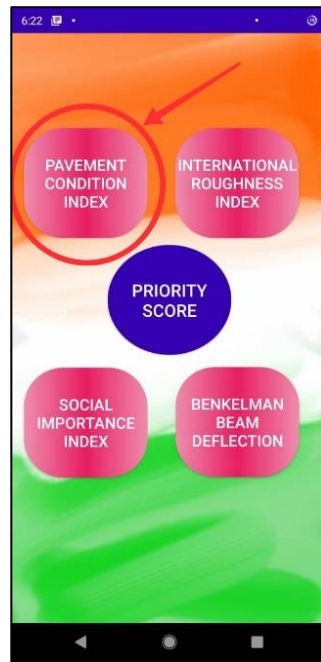


Calculation of PCI

Case1: When Condition of the road is not severe

Step 1

From the **Main Menu** select **Pavement Condition Index**



Step 2

Enter your data in appropriate slots and ensure that no section remains empty. In case you leave one or more sections empty and Tap **CALCULATE**, it will not store any of your entered data. Indeed, you will go back to the Main Menu and will have to refill each section from the very beginning

(Note: If the road is in worst condition, then choose the failed section option; otherwise enter the details below)

TAP HERE FOR FAILED SECTION

Enter your Data (For 100m Stretch)

Cracking Width (mm) _____

Cracking % Area _____

Rut Depth (mm) _____

Rutting % Area _____

Ravelling

☐ Noticeable Loss of Material

☐ Surface Texture Appears as Open

☐ Wide Open Texture with loose Materials

☐ Severe Stripping of Aggregates

Ravelling % Area _____

Pothole Volume (cc) _____

Number of Potholes _____

Affected distance from edge (mm) _____

Edge Break % of Length _____

Shoulder Drop Off Difference in Height (m) _____

Shoulder Drop Off % of Length _____

CALCULATE



(Note: If the road is in worst condition, then choose the failed section option; otherwise enter the details below)

TAP HERE FOR FAILED SECTION

Enter your Data (For 100m Stretch)

26 _____

30 _____

56 _____

23 _____

Ravelling

☐ Noticeable Loss of Material

☒ Surface Texture Appears as Open

☐ Wide Open Texture with loose Materials

☐ Severe Stripping of Aggregates

63 _____

35 _____

57 _____

65 _____

28 _____

46 _____

78 _____

CALCULATE

Step 3

After filling all the slots, Tap the **CALCULATE** option

11:09 4G+

☐ Noticeable Loss of Material

☒ Surface Texture Appears as Open

☐ Wide Open Texture with loose Materials

☐ Severe Stripping of Aggregates

58 _____

36 _____

20 _____

36 _____

88 _____

33 _____

33 _____

CALCULATE

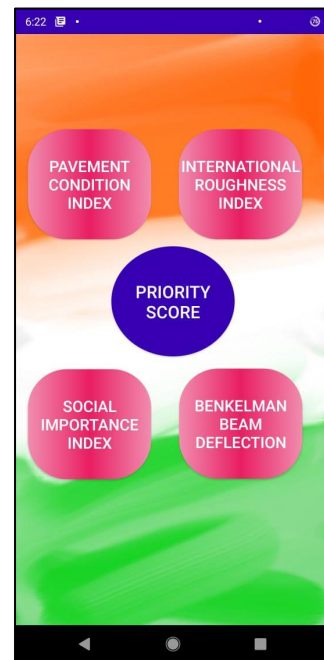
Step 4

Distress Score and **Pavement Condition Index** will be displayed on the screen



Step 5

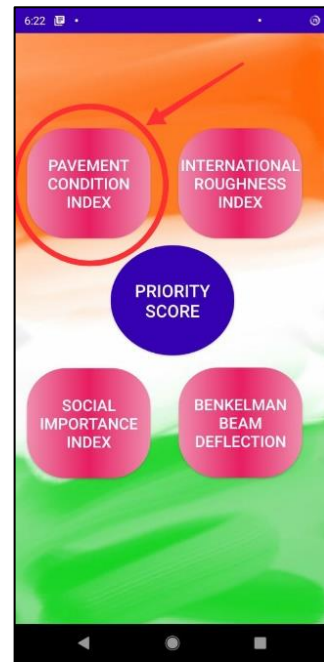
Tap the **Back Button** to get back to the **Main Menu**



Case 2: For Failed Section (When condition of the road is very severe)

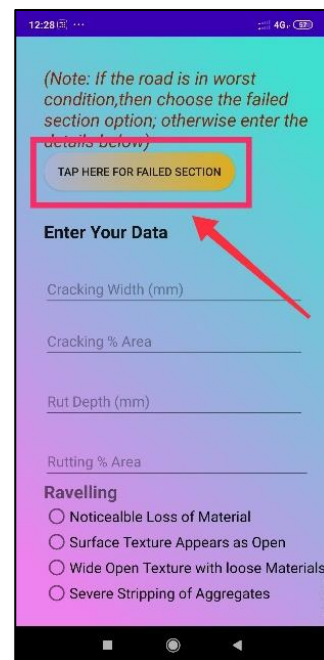
Step 1

From the **Main Menu** select **PAVEMENT
CONDITION INDEX**



Step 2

Choose **TAP HERE FOR FAILED SECTION**
Option



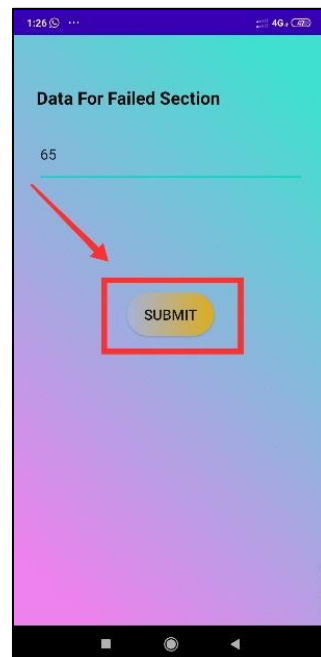
Step3

Enter your data for **failed section**



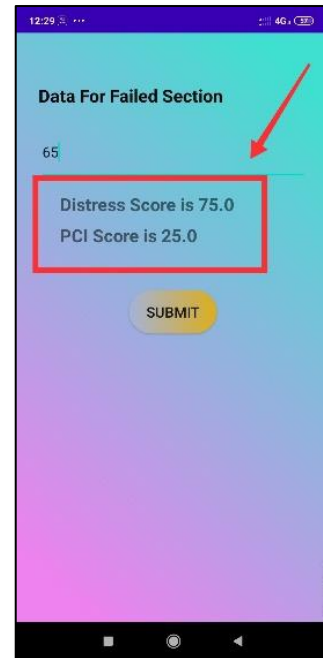
Step 4

Tap the **SUBMIT** button



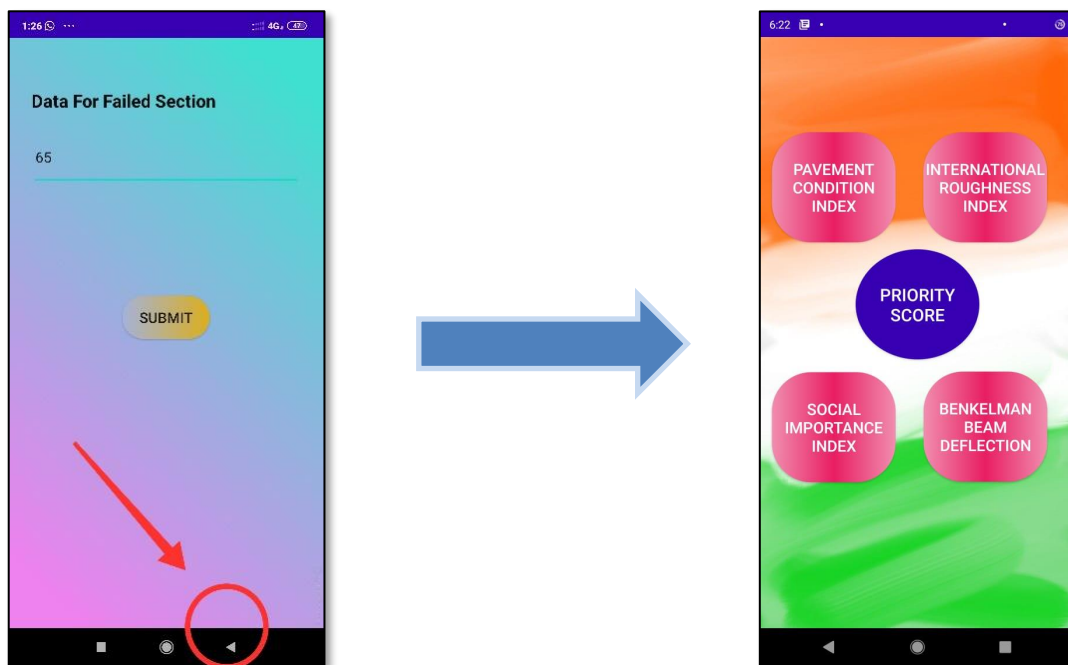
Step 5

Distress Score and **Pavement Condition Index** will be displayed accordingly



Step 6

Tap the **Back Button** to get back to the **Main Menu**



Calculation of IRI

CASE 1: When the value is to be determined go for INDIRECT METHOD.

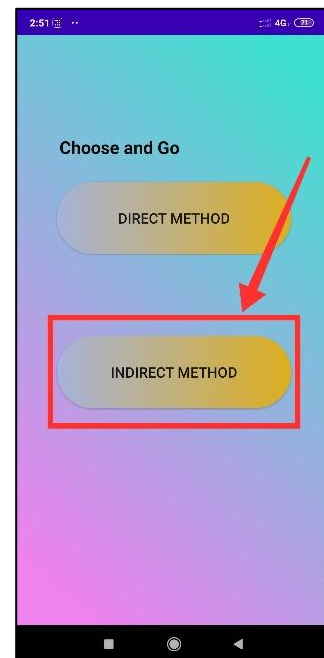
Step 1

Select **INTERNATIONAL ROUGHNESS INDEX**



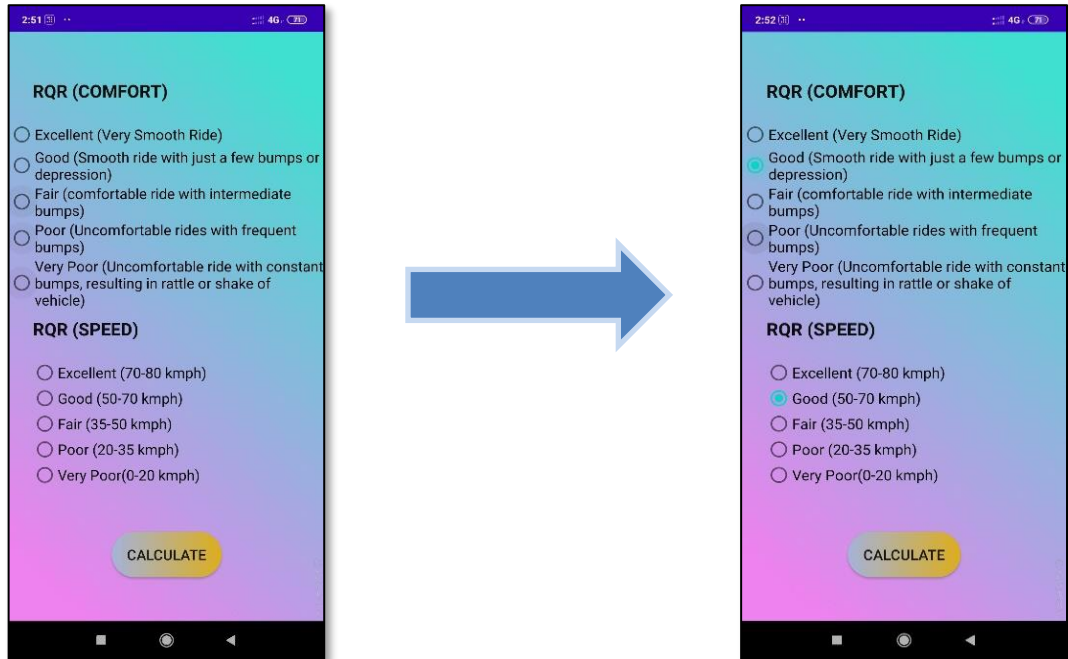
Step 2

Tap the **INDIRECT METHOD** option and enter your data for the particular road section



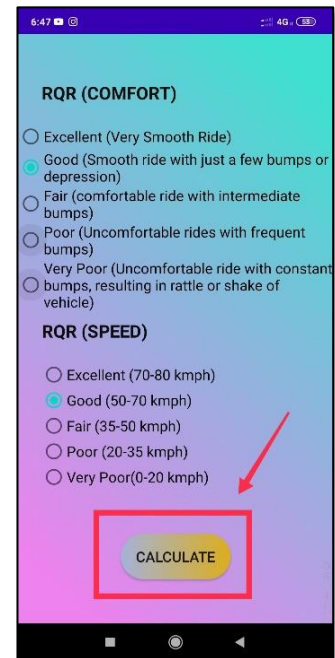
Step 3

Select options for the particular road section



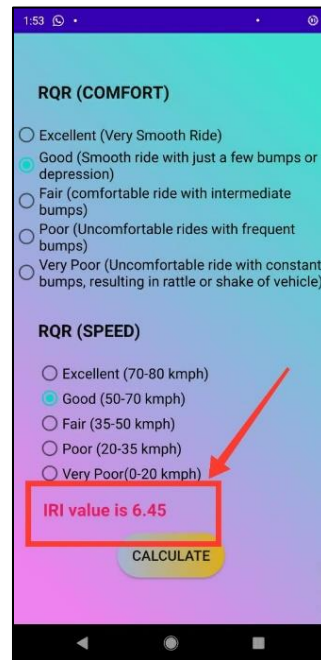
Step 4

Tap **CALCULATE**



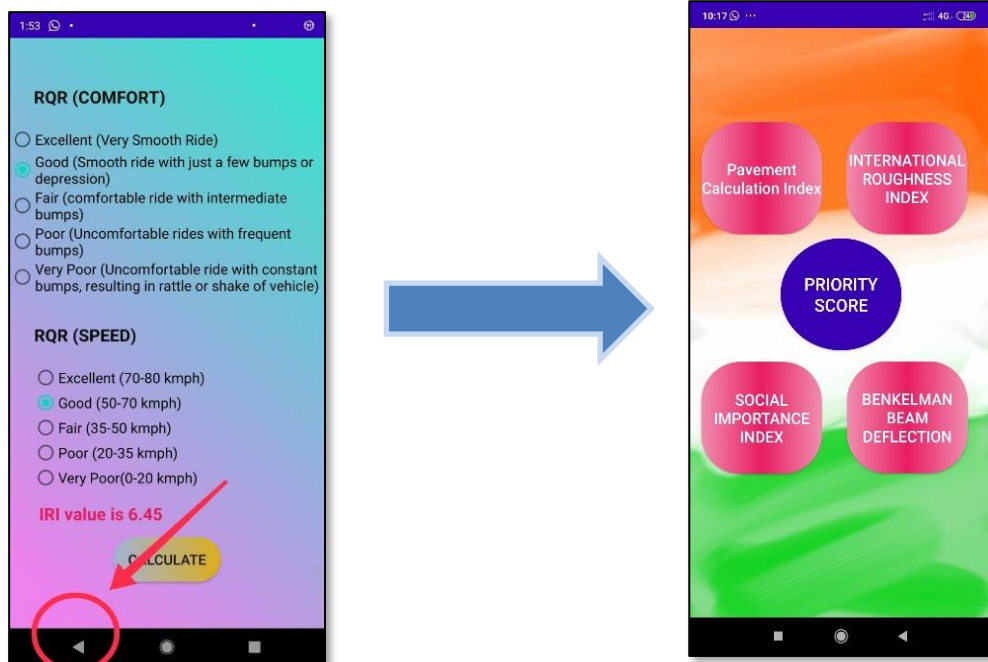
Step 5

IRI value will be displayed on the screen



Step 6

Tap the **Back Button** and get back to the **Main Menu**



CASE 2: When value is known, go for DIRECT METHOD

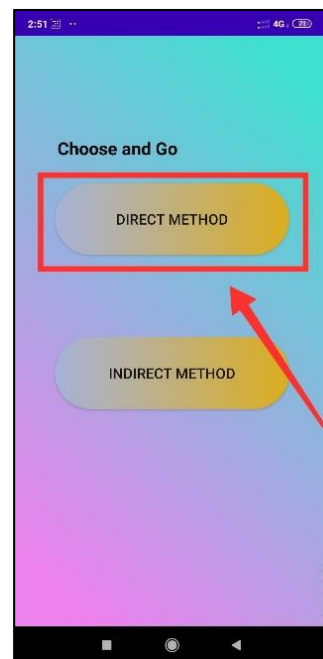
Step 1

Select **INTERNATIONAL ROUGHNESS INDEX** from the **Main Menu**



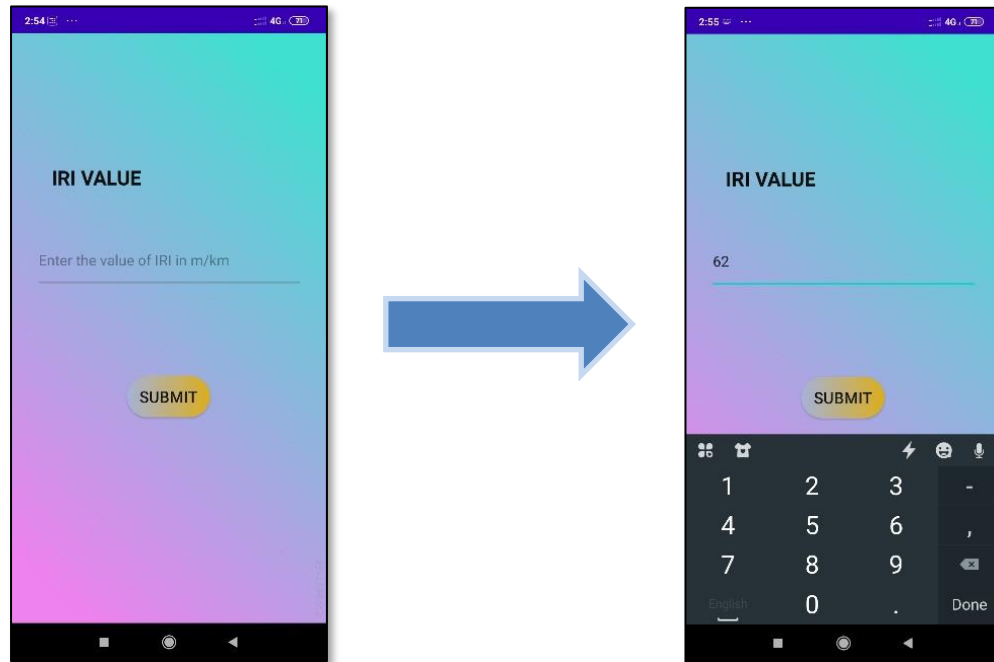
Step 2

Select **DIRECT METHOD** option



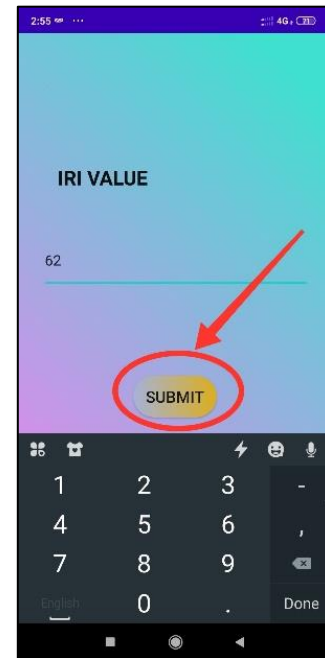
Step 3

Enter the known **IRI** value



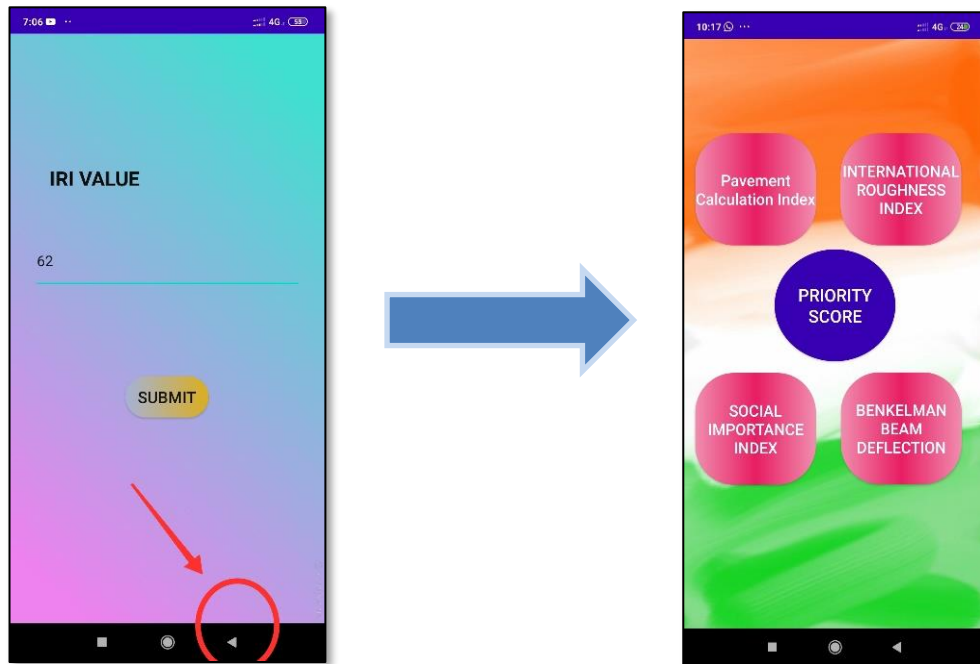
Step 4

Tap **SUBMIT** to store the known IRI value



Step 5

Tap the **Back Button** and get back to the **Main Menu**

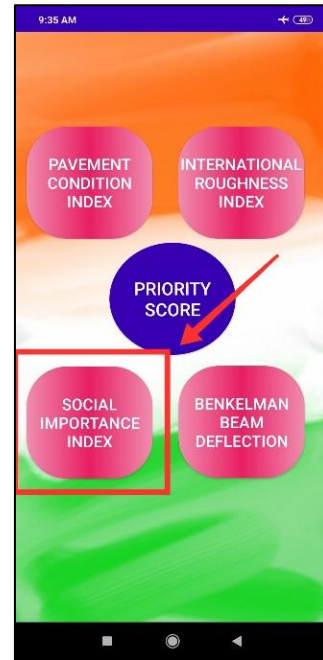


Calculation of SII

Case 1: When value is unknown and needs to be evaluated.

Step 1

Select **SOCIAL IMPORTANCE INDEX** from the **Main Menu**



Step 2

Select **UNKNOWN VALUE** option



Step 3

Enter your data in relevant positions (Ensure no slot remains empty)

8:41 AM 4G+ CSE

AADT (PCU)
Enter the value of AADT

Terrain
☐ Plain
☐ Rolling
☐ Mountainous
☐ Steep

Educational Facility
Number of LP Schools
Number of High Schools
Number of Colleges

Medical Facility
Number of Sub-Centres
Number of Hospitals

Market Facility
Number of Daily Markets
Number of Weekly Markets

Number of Industries
☐ 0
☐ 1
☐ 2
☐ 3
☐ 4
☐ 5

Number of Tourist/Religious spots
☐ 0
☐ 1
☐ 2
☐ 3
☐ 4
☐ 5

Road Classification
☐ MDR
☐ SH

CALCULATE



8:43 AM CSE

AADT (PCU)
25

Terrain
☐ Plain
☒ Rolling
☐ Mountainous
☐ Steep

Educational Facility
1
1
1

Medical Facility
1
1

Market Facility
3
2

Number of Industries
☐ 0
☐ 1
☒ 2
☐ 3
☐ 4
☐ 5

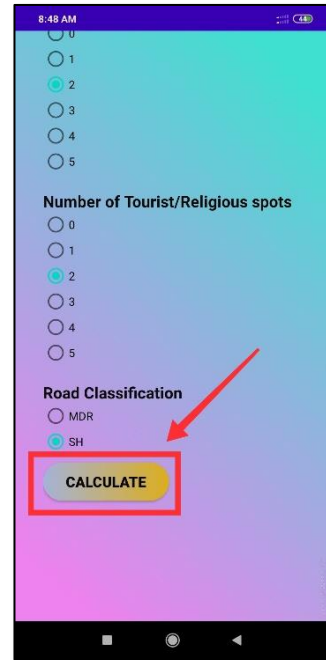
Number of Tourist/Religious spots
☐ 0
☐ 1
☒ 2
☐ 3
☐ 4
☐ 5

Road Classification
☐ MDR
☒ SH

CALCULATE

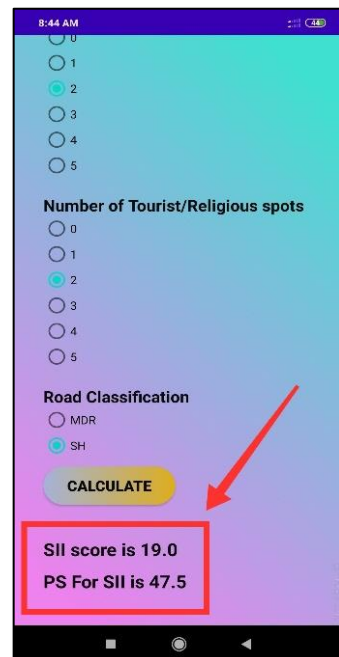
Step 4

Tap **CALCULATE**



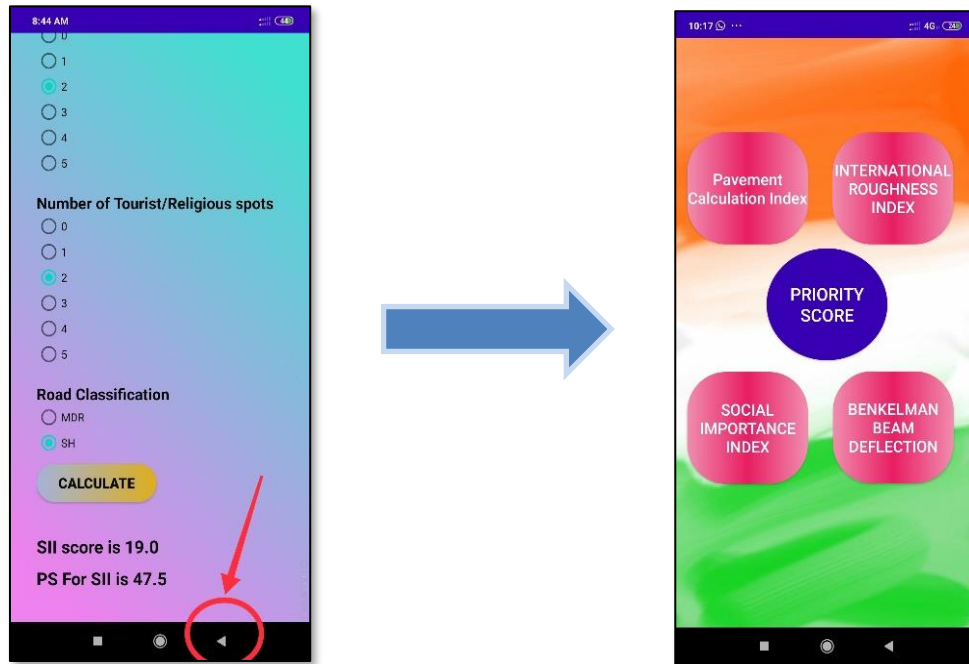
Step 5

SII value will be displayed accordingly on the screen



Step 6

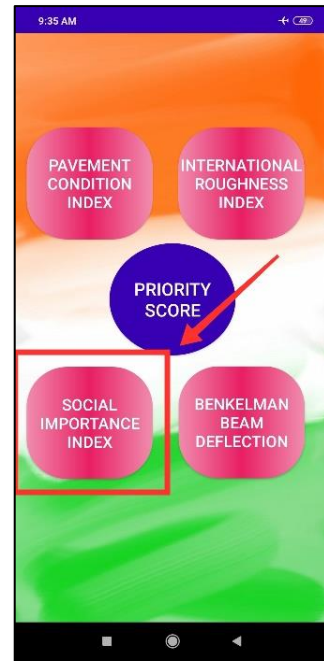
Tap the **Back Button** to get back to the **Main Menu**



Case 2: When value is known, go for DIRECT METHOD

Step 1

Select **SOCIAL IMPORTANCE INDEX** from the **Main Menu**



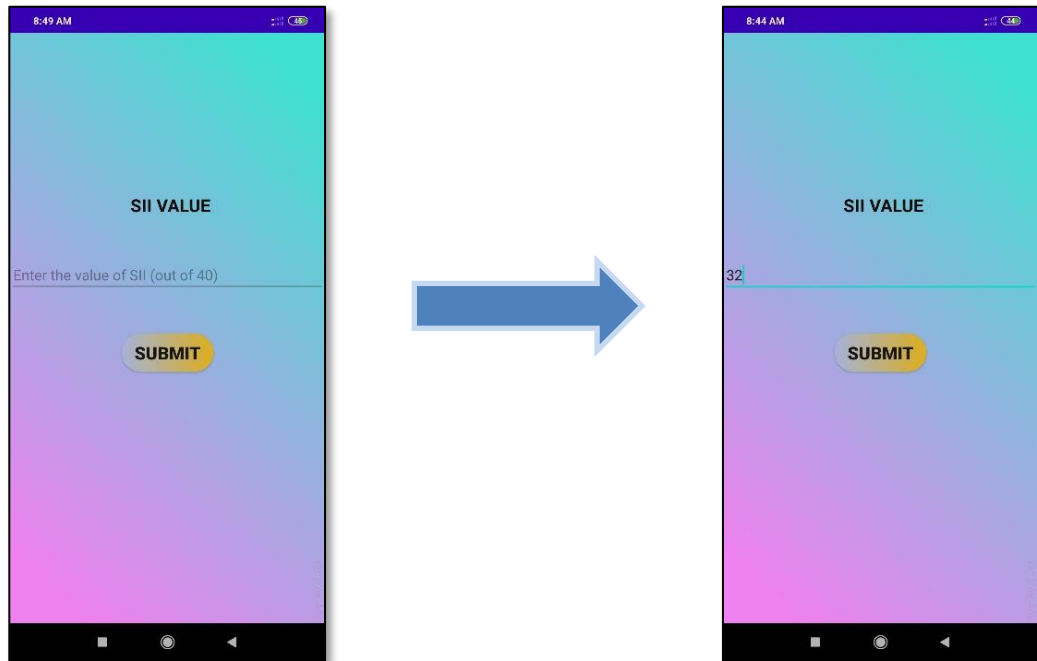
Step 2

Tap **KNOWN VALUE** option



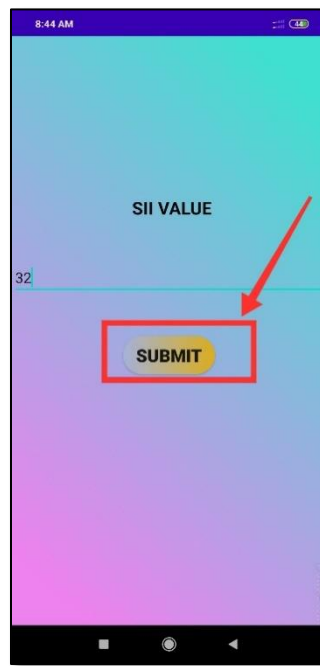
Step 3

Enter the SII value for that particular road section



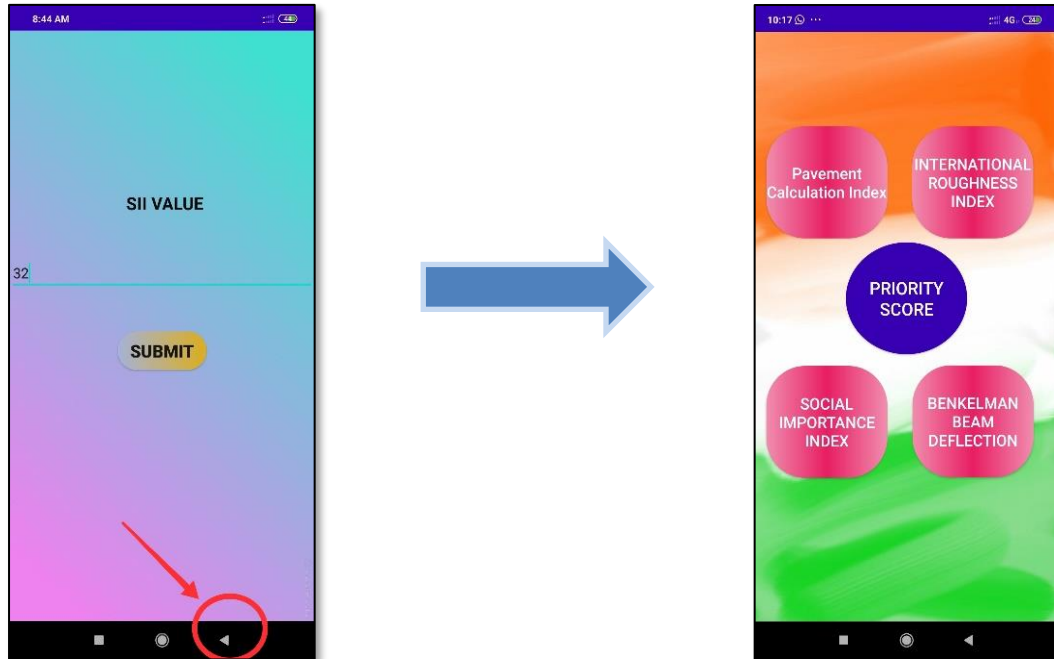
Step 4

Tap **SUBMIT**



Step 5

Tap the **Back Button** and get back to the **Main Menu**

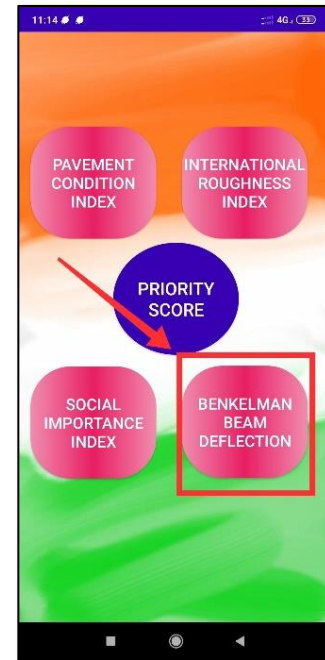


Calculation of Characteristic Deflection

Case 1: When the value is to be evaluated go for Direct Method

Step 1

Select **BENKELMENT BEAM DEFLECTION**
from the **Main Menu**



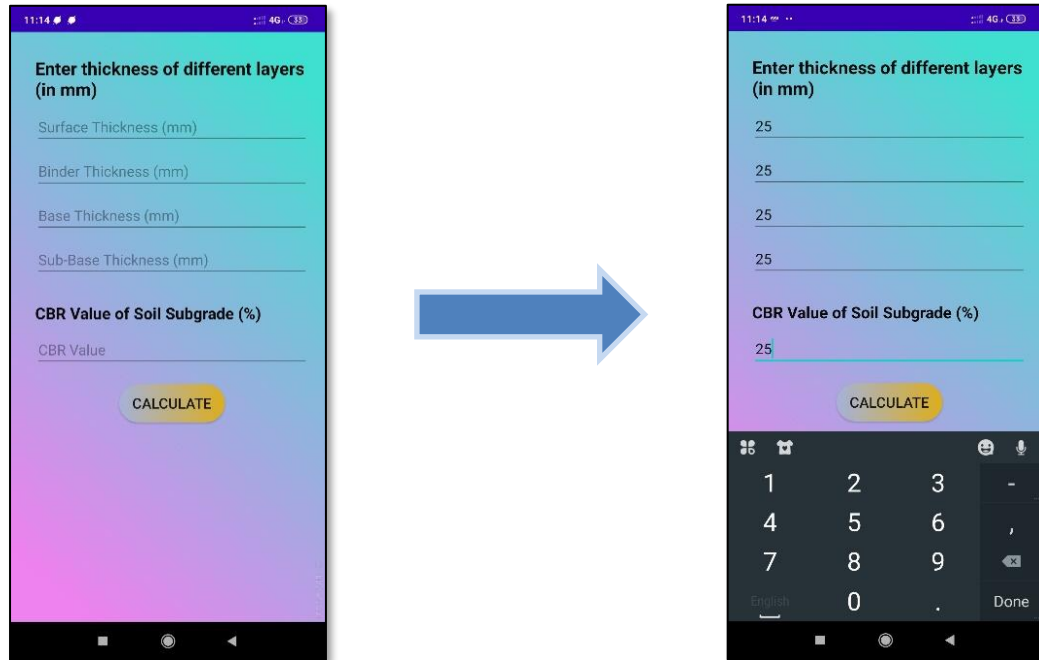
Step 2

Select **INDIRECT** option



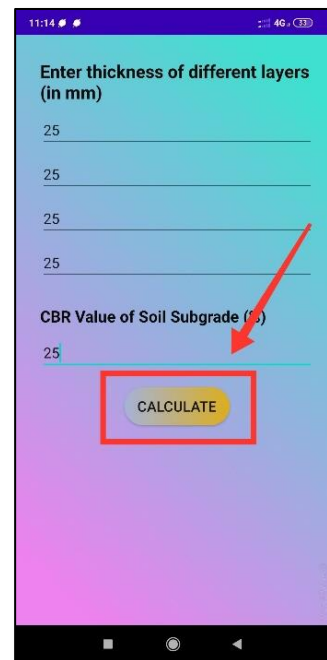
Step 3

Enter your data in each section (Ensure no section remains empty)



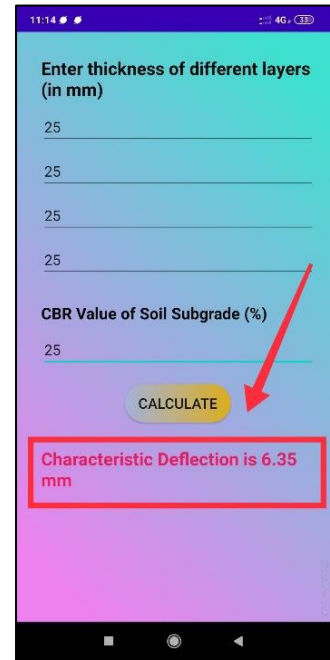
Step 4

Tap **CALCULATE**



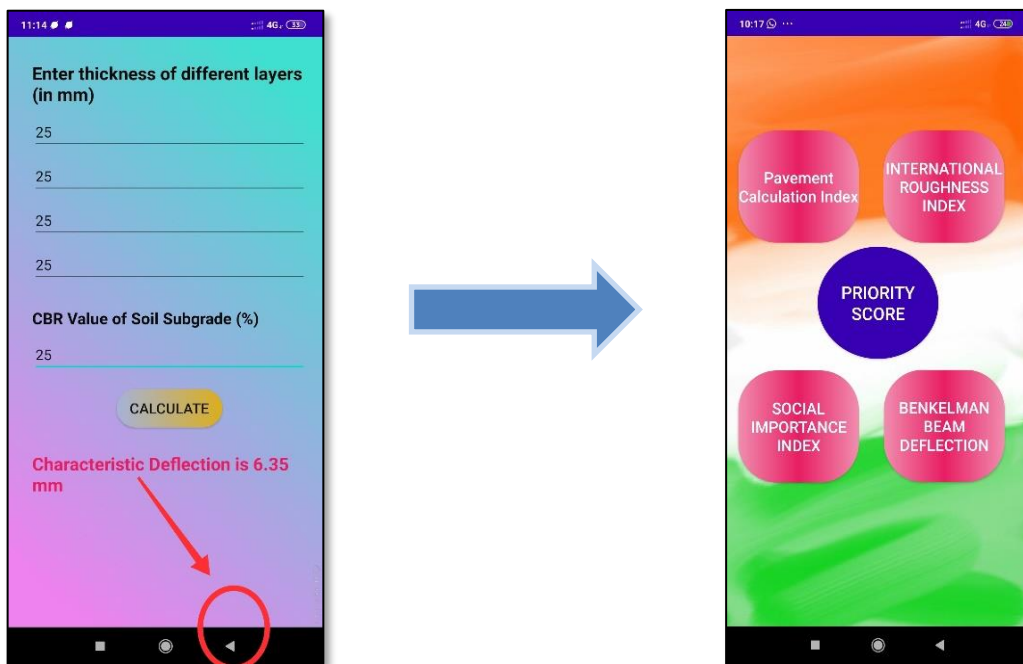
Step 5

CHARACTERISTIC DEFLECTION of the road section will be displayed on the screen



Step 6

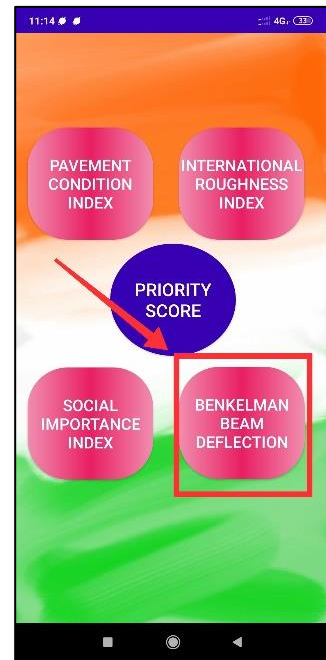
Tap the **Back Button** to get back to the **Main Menu**



Case 2: When the value is already known go for DIRECT method

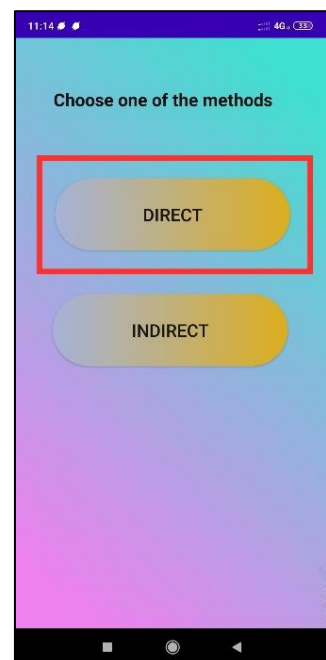
Step 1

Select **BENKELMENT BEAM DEFLECTION** option from the **Main Menu**



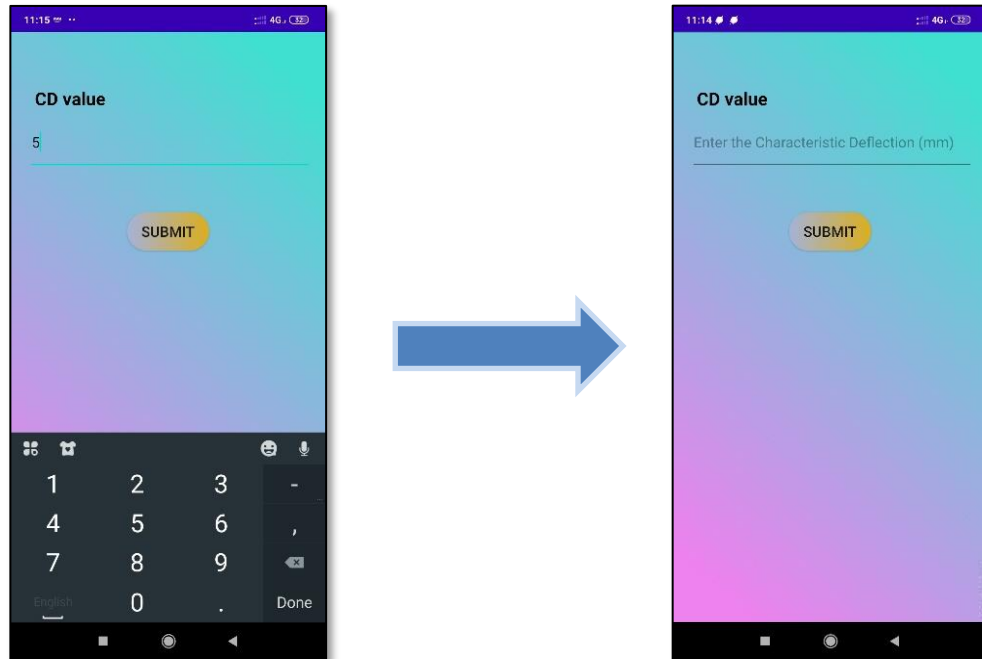
Step 2

Select **DIRECT OPTION**



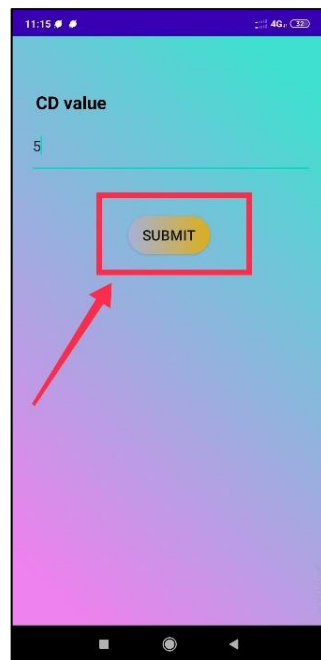
Step 3

Enter the known **CD** value



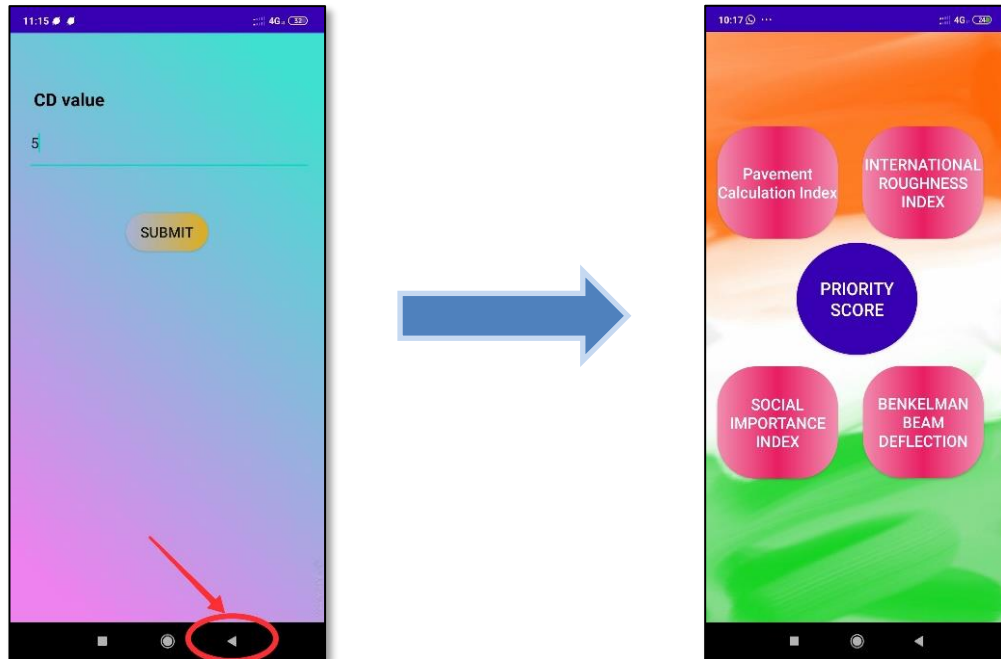
Step 4

Tap **SUBMIT** button



Step 4

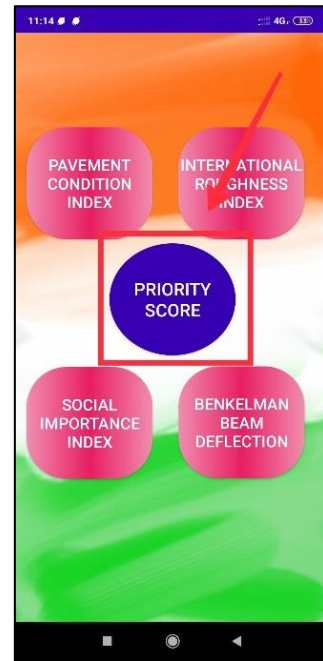
Tab the **Back Button** to get back to the **Main Menu**



PRIORITY SCORE OF THE ROAD

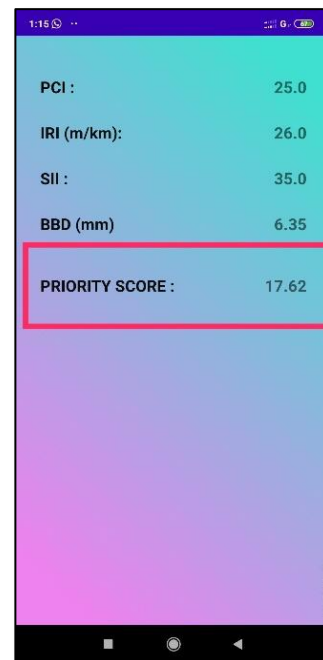
Step 1

After evaluating all the values (PCI, IRI, SII and CD) select **PRIORITY SCORE** from the **Main Menu**



Step 2

PRIORITY SCORE will be displayed on the screen together with PCI, IRI, SII and BBD values



*** Refresh the app and follow the same procedure to Calculate the PRIORITY SCORE for another Road***