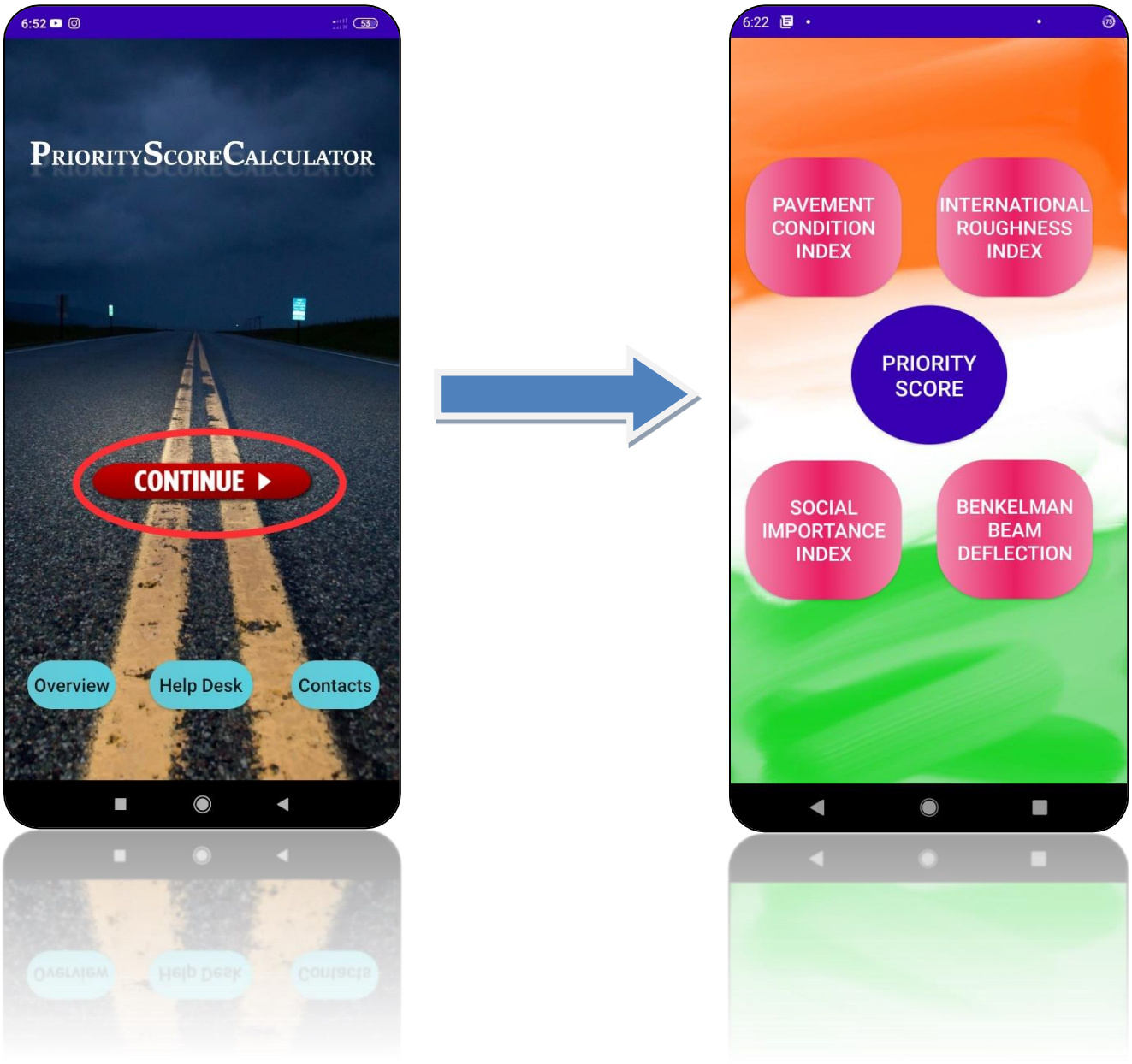
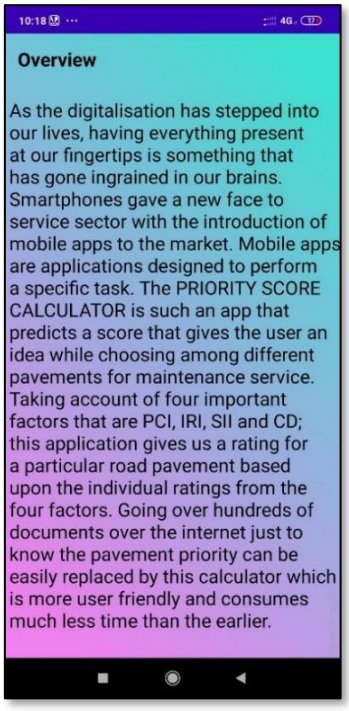
Manual for Users to Calculate the Priority Score for a Particular Road Section

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



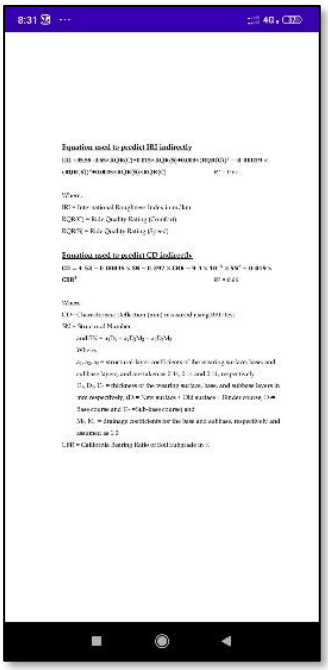
Tap **CONTACTS** to get into the contact list

Tap **OVERVIEW** to know the app metrics

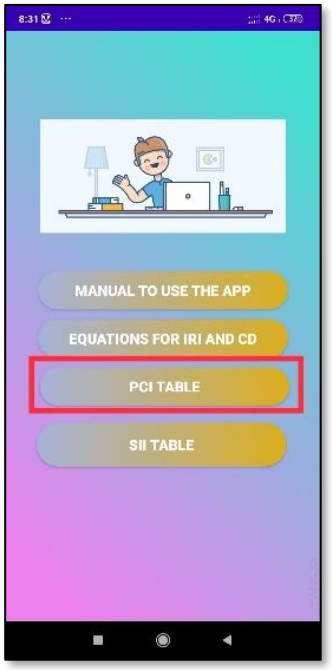


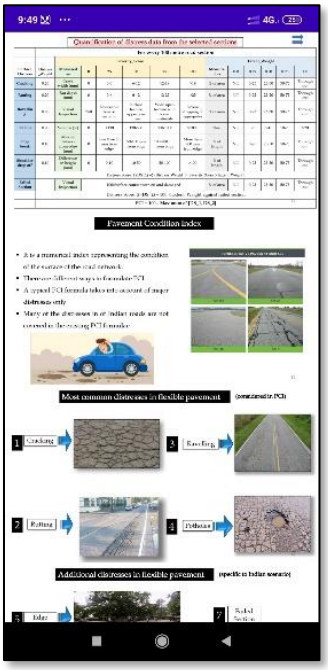
HELP DESK

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

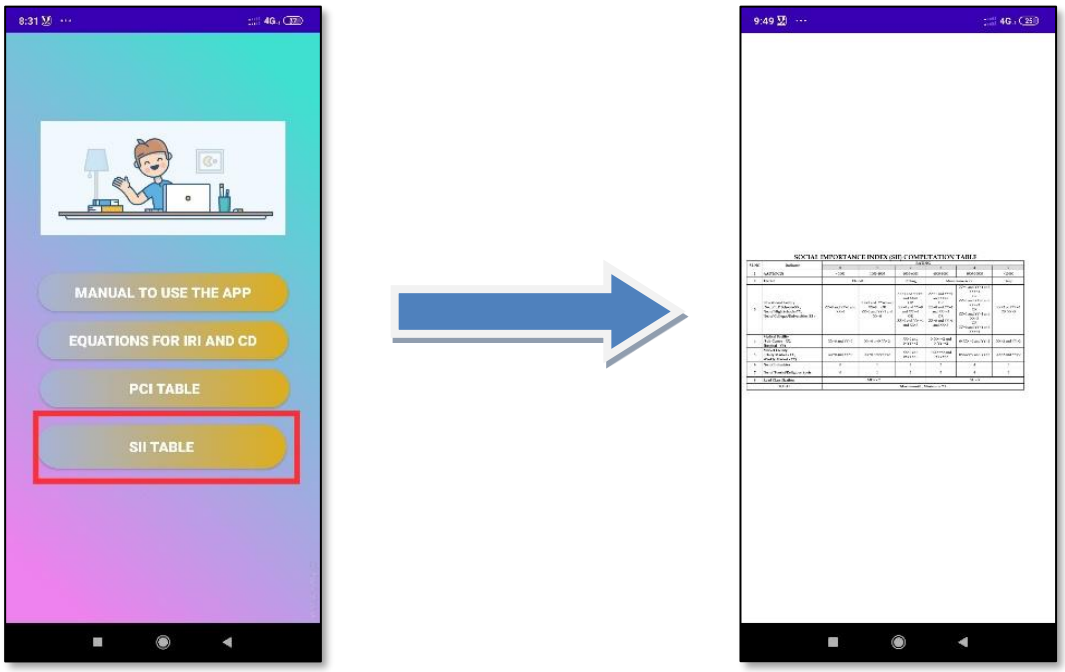


PCI TABLE will provide you the details about Distresses, Severity Score, Extent Weight and the formulae correlated





SII TABLE will provide you the rating details



Calculation of PCI

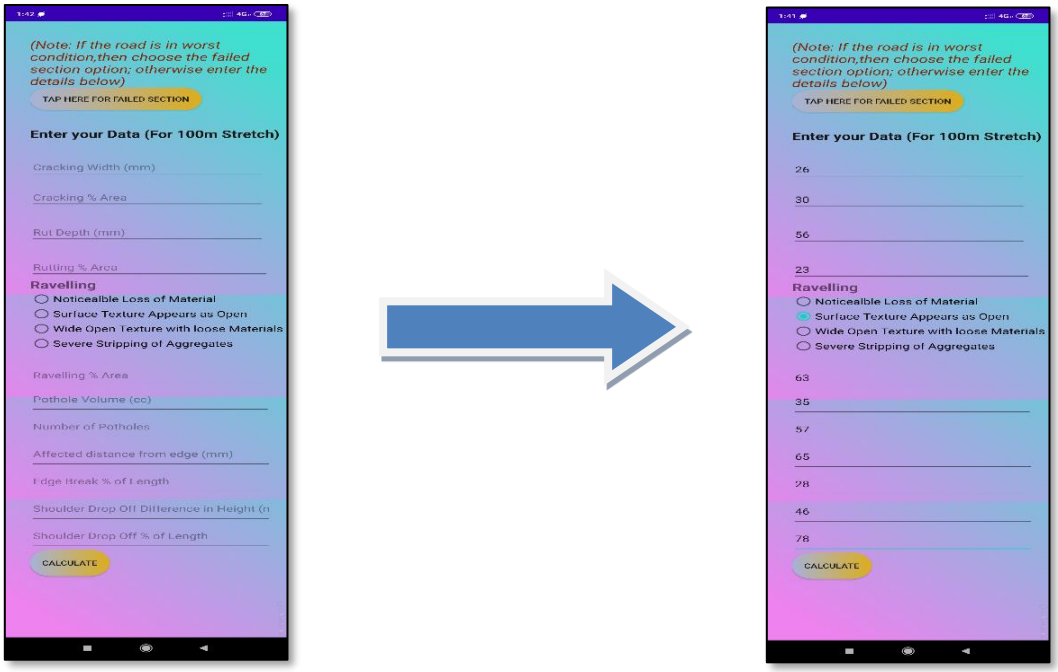
Case1: When Condition of the road is not severe

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

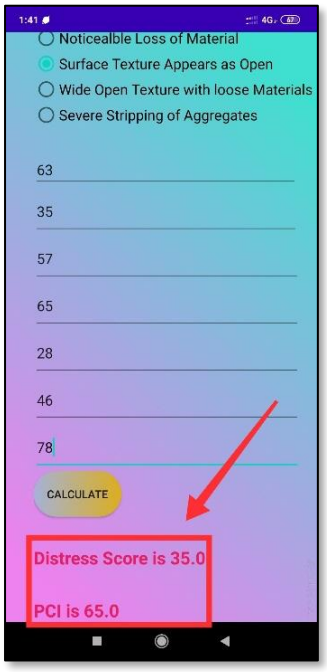


Step 3

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

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**

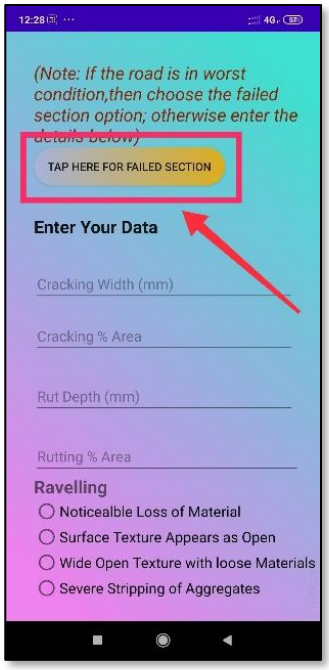
Case 2: For Failed Section (When condition of the road is very severe)

Step 1

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

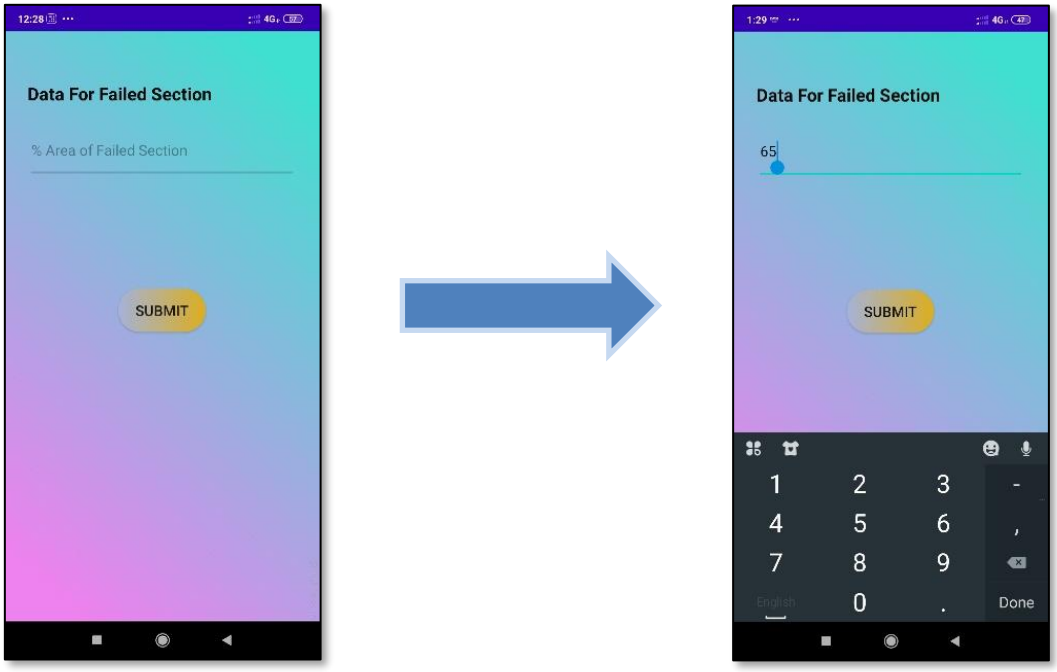
Step 2

Choose **TAP HERE FOR FAILED SECTION** Option



Step3

Enter your data for **failed section**

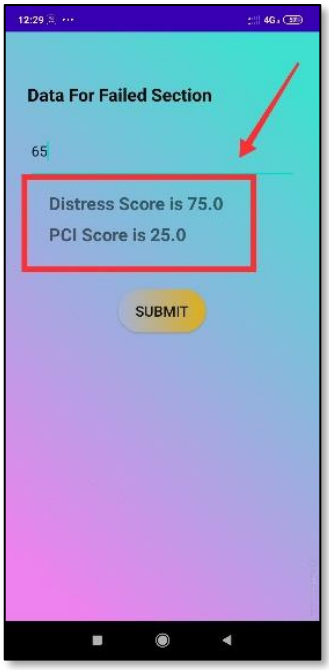


Step 4

Tap the **SUBMIT** button

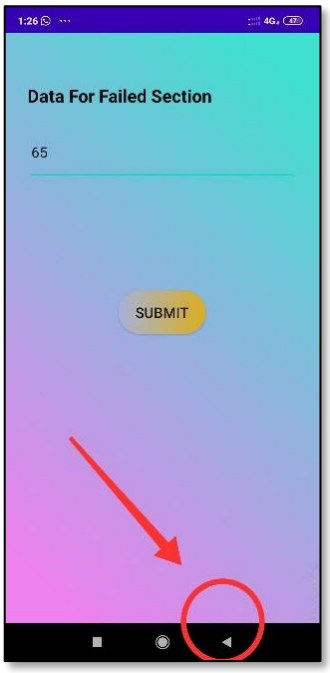
Step 5

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

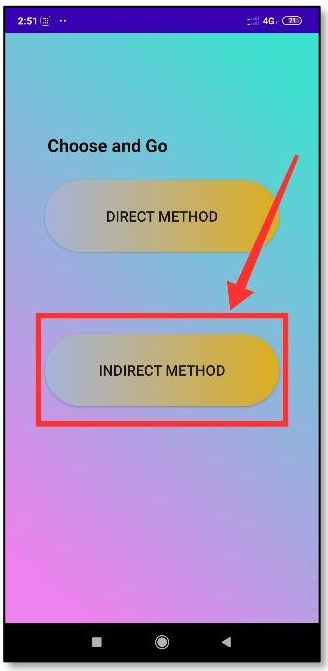
CASE 1: When the value is to be determined go for INDIRECT METHOD.

Step 1

Select **INTERNATIONAL ROUGHNESS INDEX**

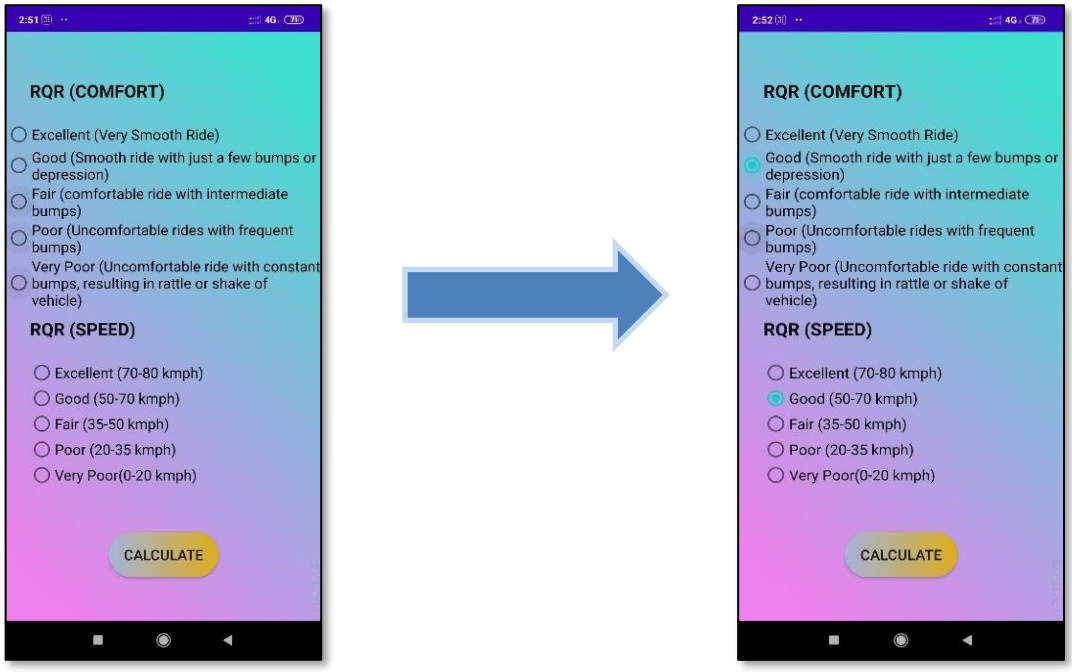
Step 2

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



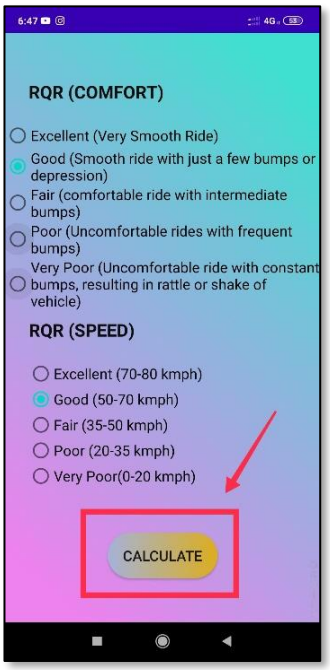
Step 3

Select options for the particular road section



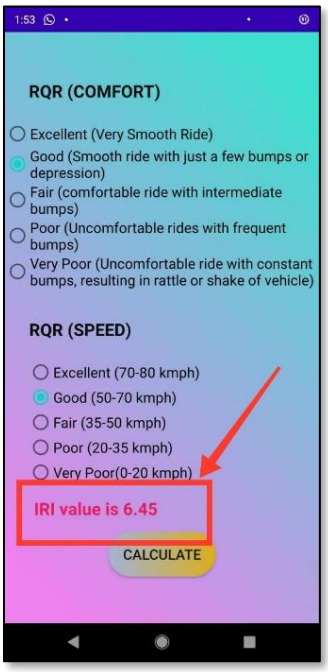
Step 4

Tap **CALCULATE**



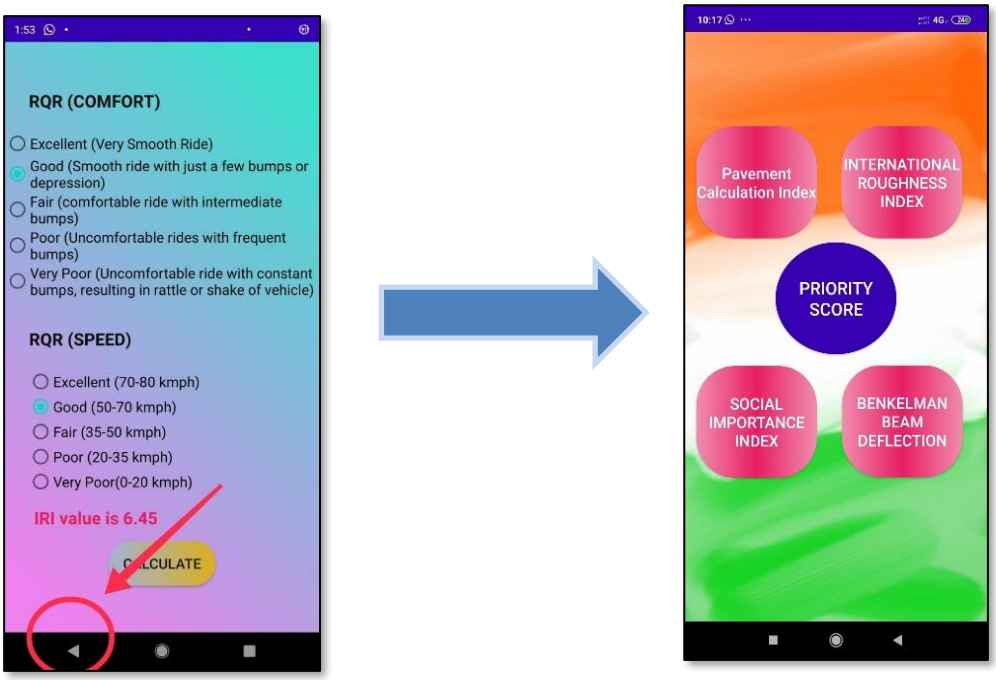
Step 5

IRI value will be displayed on the screen



Step 6

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



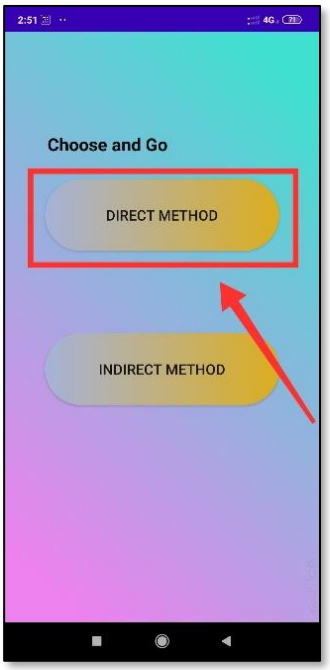
CASE 2: When value is known, go for DIRECT METHOD

Step 1

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

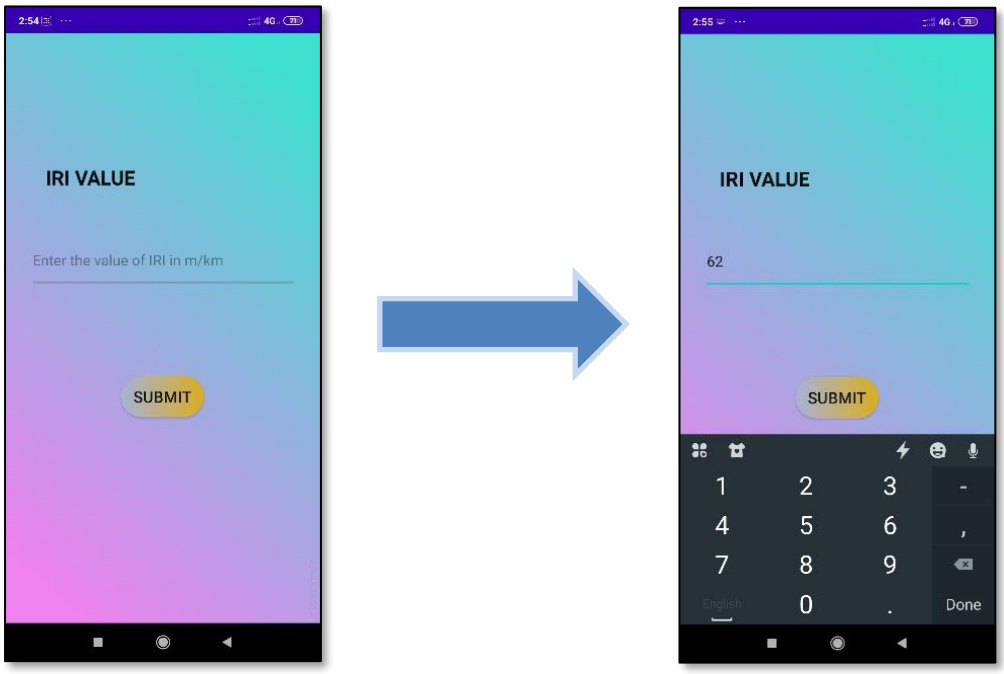
Step 2

Select **DIRECT METHOD** option



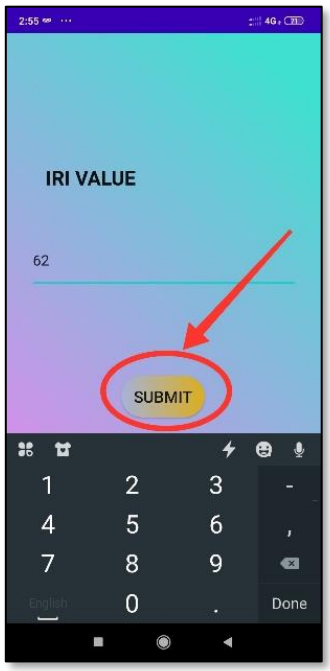
Step 3

Enter the known **IRI value**



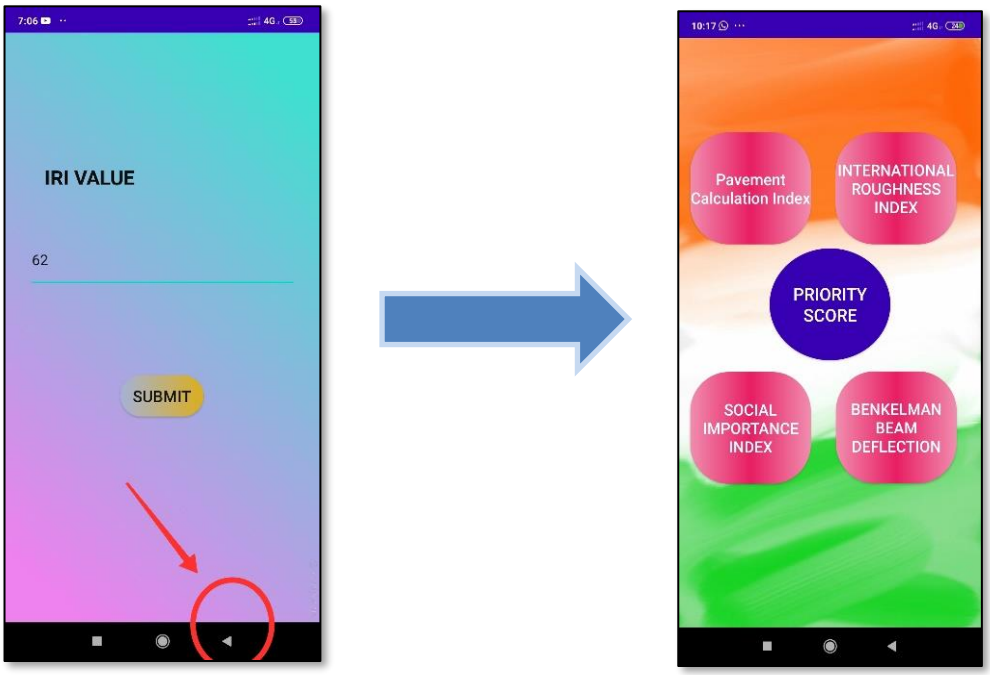
Step 4

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



Step 5

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

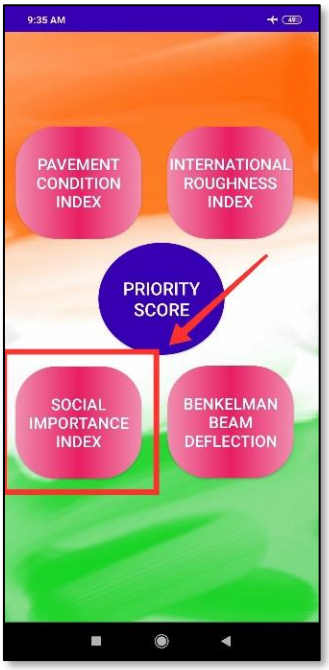


Calculation of SII

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

Step 1

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

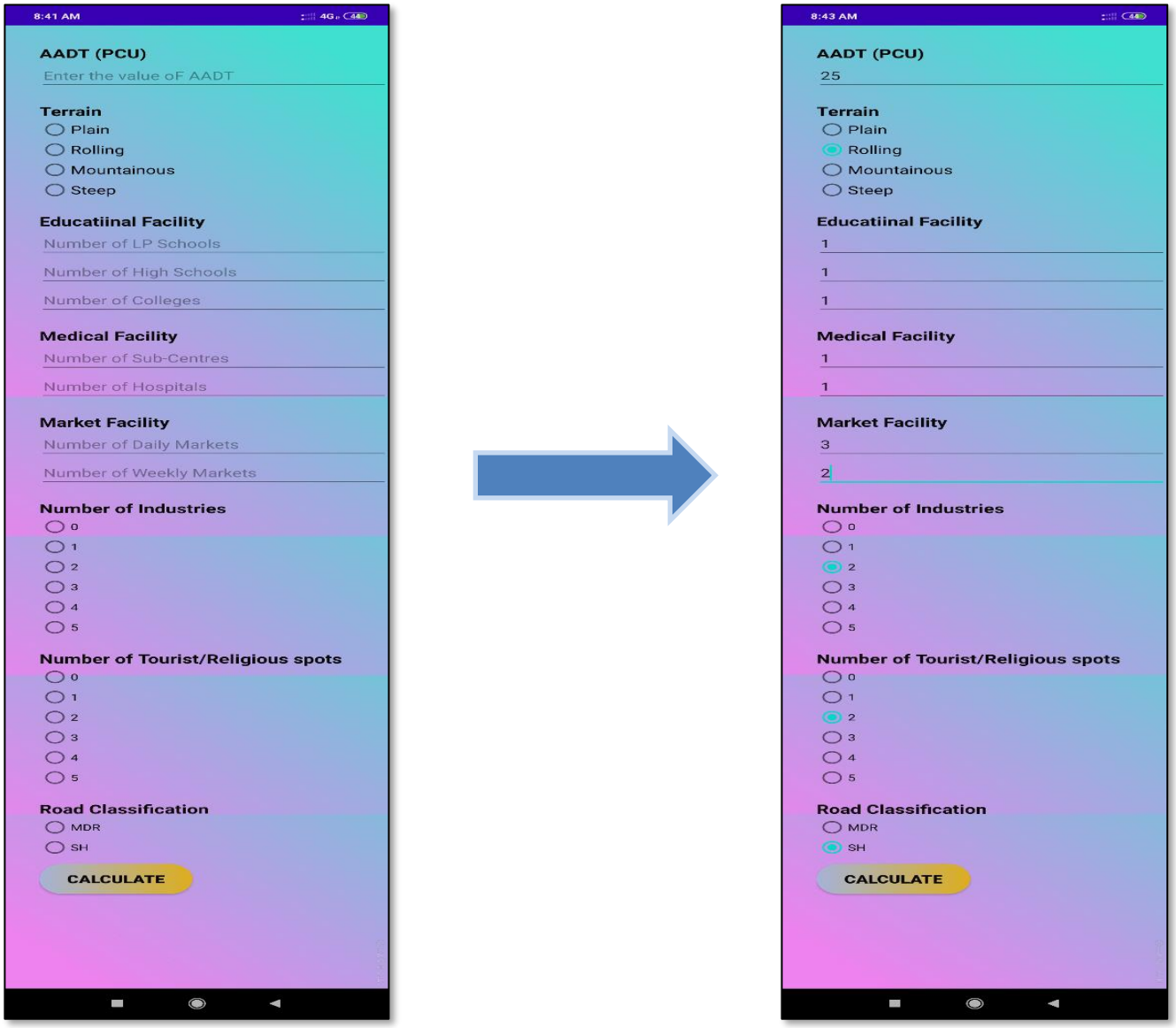


Step 2

Select **UNKNOWN VALUE** option

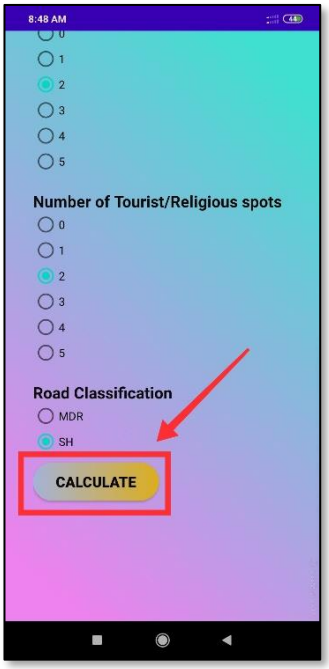
Step 3

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



Step 4

Tap **CALCULATE**

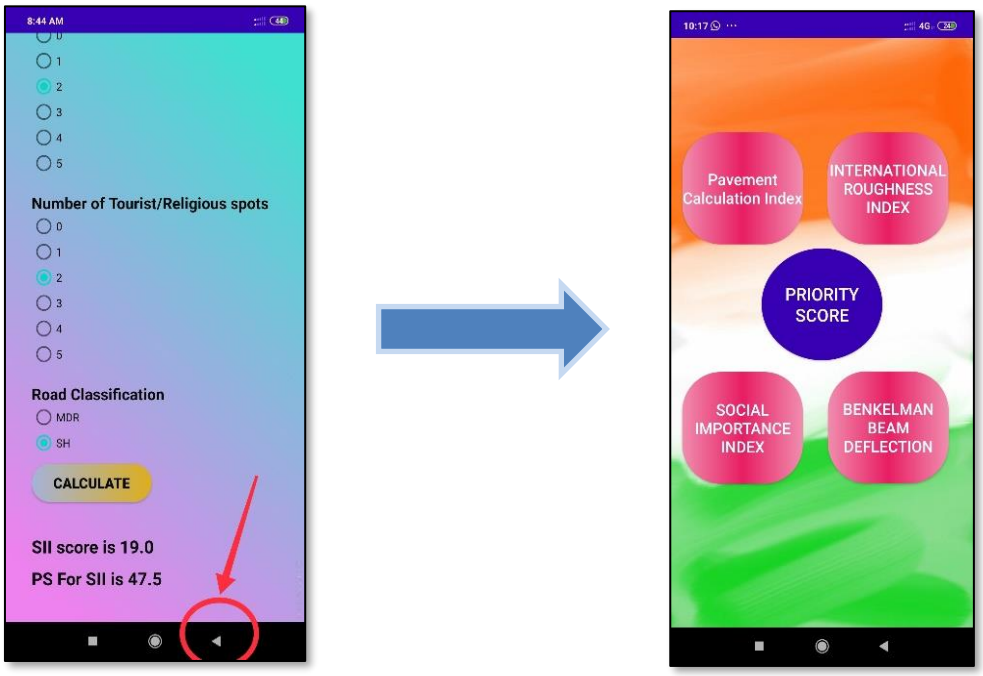


Step 5

SII value will be displayed accordingly on the screen

Step 6

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



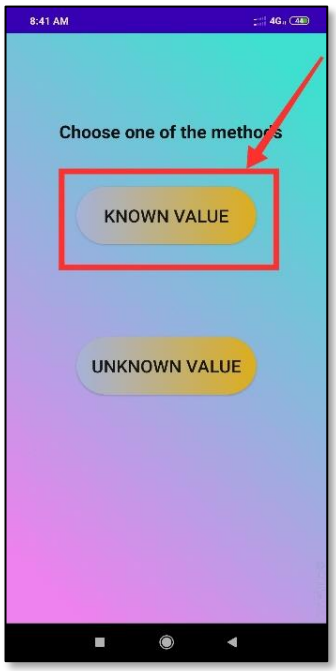
Case 2: When value is known, go for DIRECT METHOD

Step 1

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

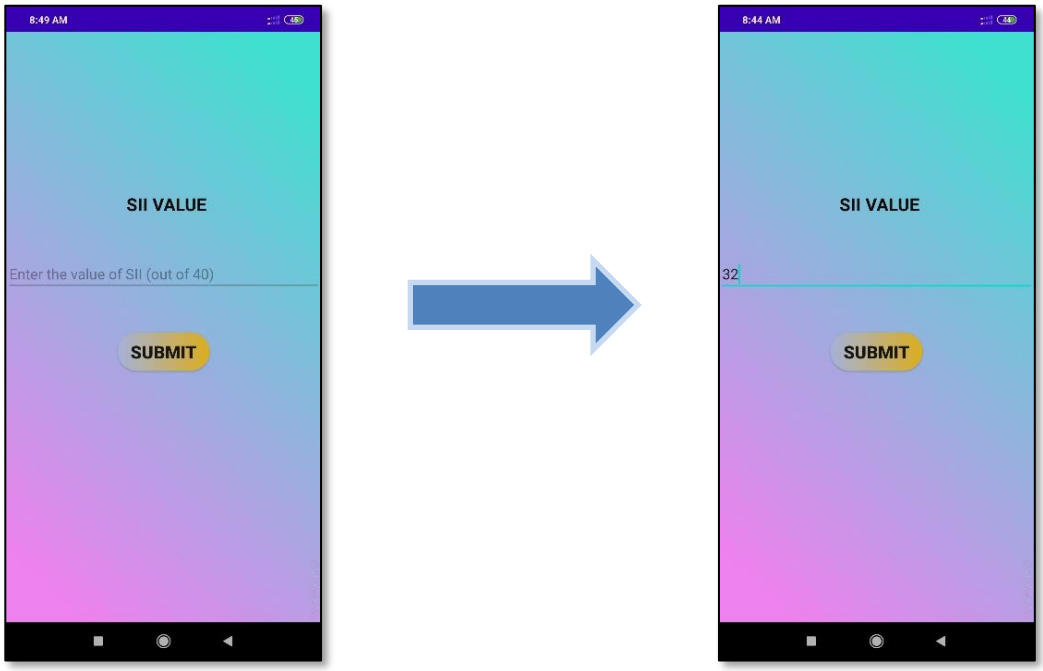
Step 2

Tap **KNOWN VALUE** option



Step 3

Enter the SII value for that particular road section

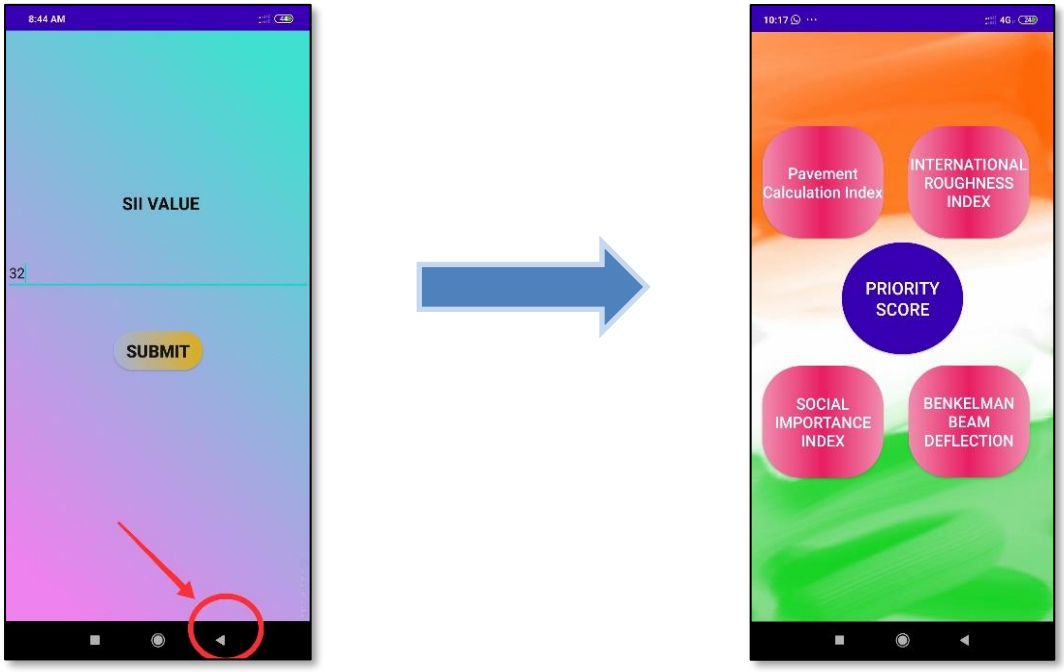


Step 4

Tap **SUBMIT**

Step 5

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



Calculation of Characteristic Deflection

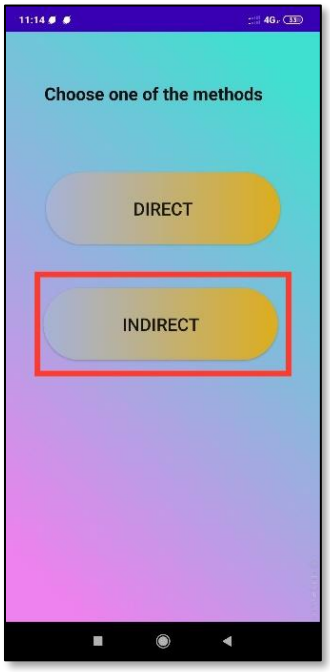
<u>Case 1: When the value is to be evaluated go for Direct Method</u>

<u>Step 1</u>

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

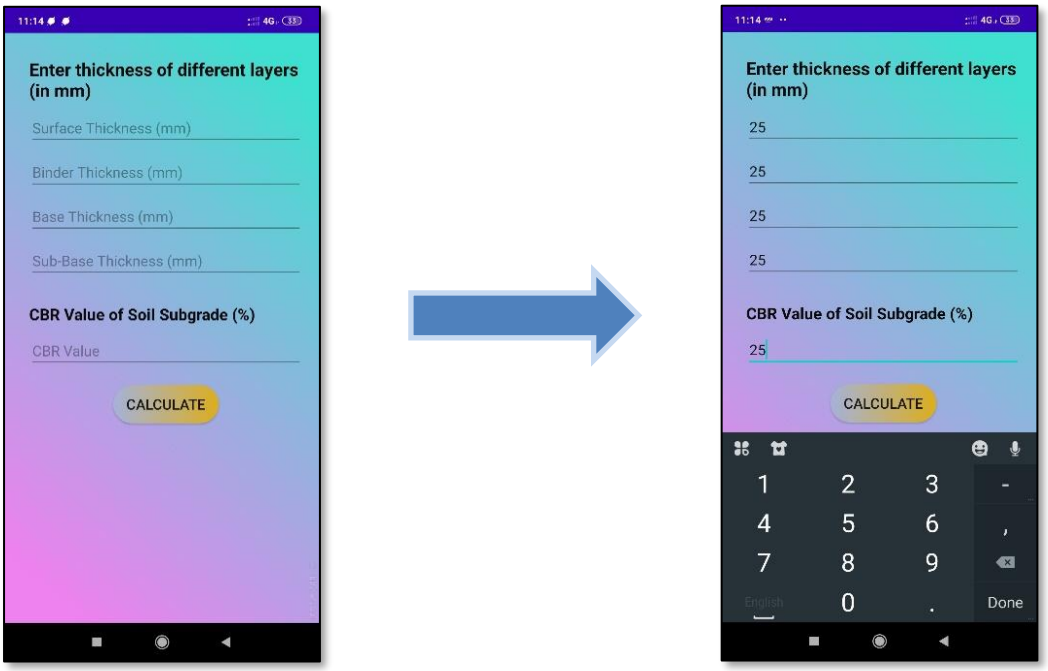
<u>Step 2</u>

Select **INDIRECT** option



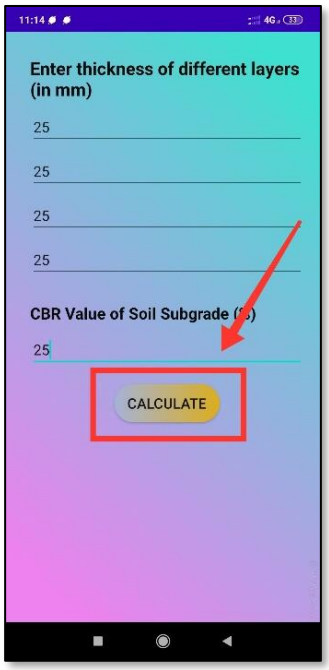
Step 3

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



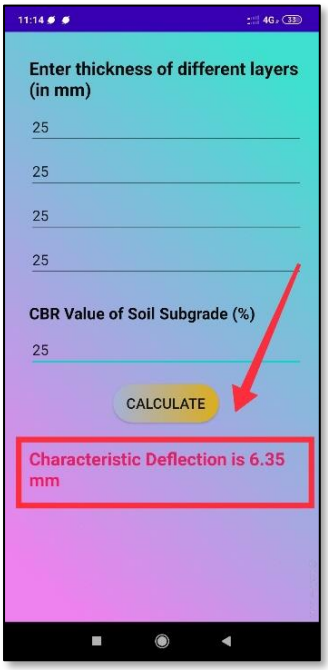
Step 4

Tap **CALCULATE**



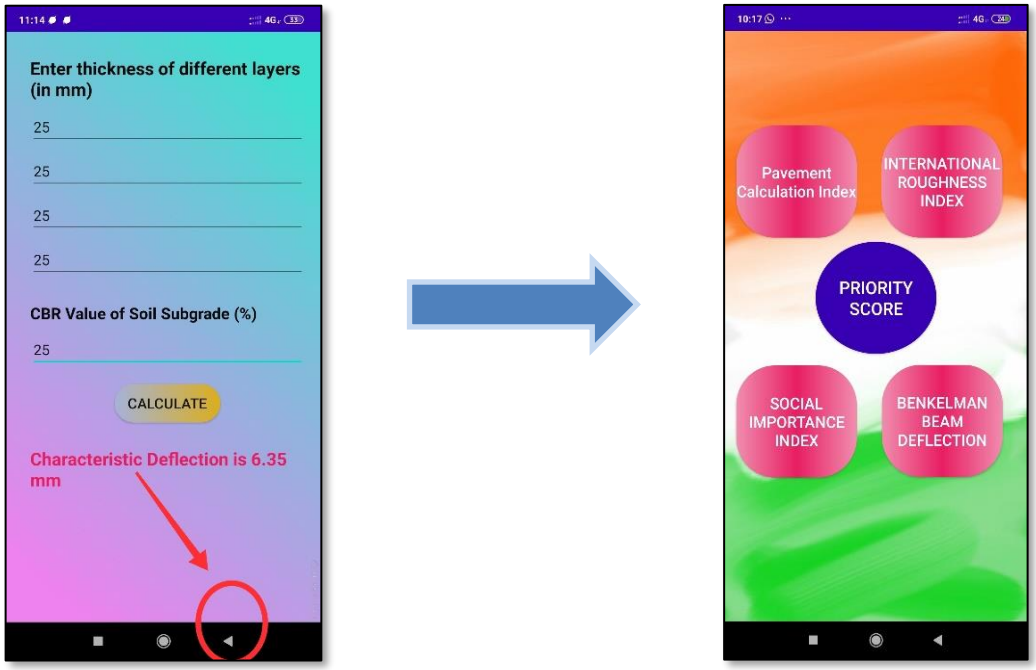
Step 5

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**



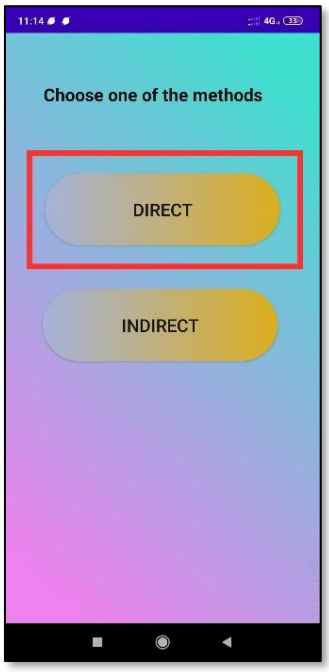
Case 2: When the value is already known go for DIRECT method

Step 1

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

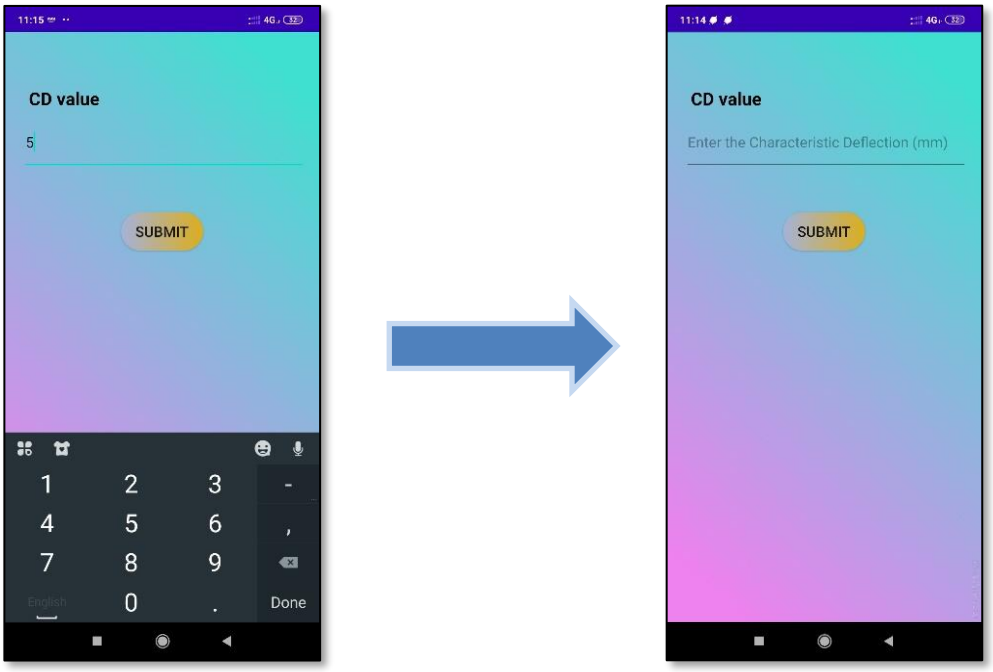
Step 2

Select **DIRECT OPTION**



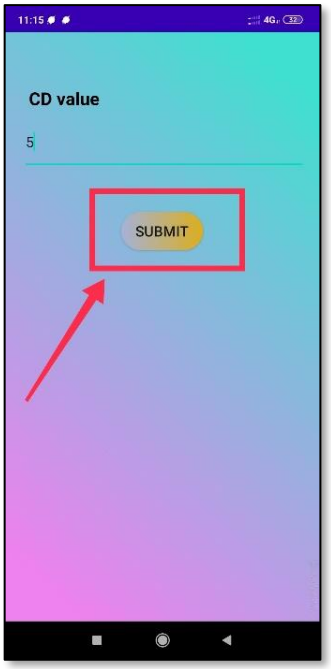
Step 3

Enter the known **CD value**



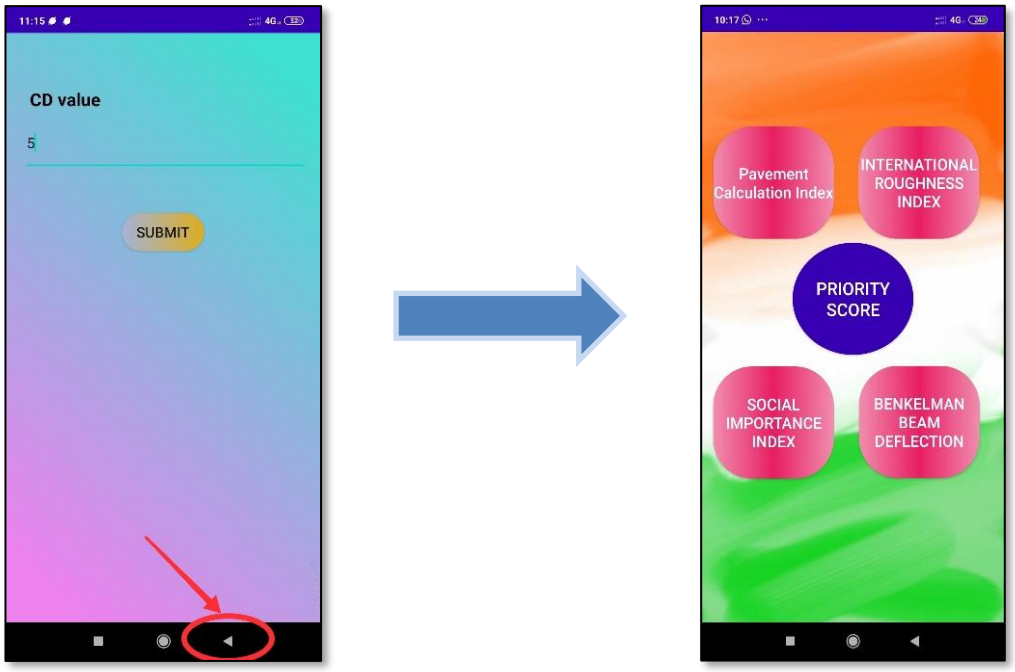
Step 4

Tap **SUBMIT** button



Step 4

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



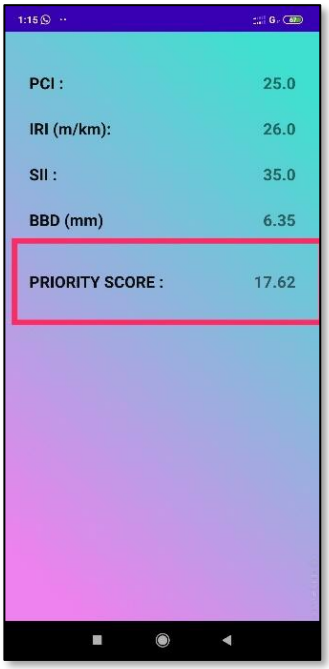
PRIORITY SCORE OF THE ROAD

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***