## Observations for the BMS App Testing on Field (ORR Hyderabad)

### Location Details

1. Field: Bridge Function  
   Under pass radio Button Option Underpass to be replaced with   
   Pedestrian Underpass, Cattle Underpass and Vehicle Underpass.  
   To Provide one more radio button option Bridge over river.

Function of the Bridge: The Look up Table shall be updated as below

|  |
| --- |
| Bridge Over River |
| ROB |
| RUB |
| Viaduct |
| Vehicular Underpass |
| Pedestrian / Cattle Underpass |
| Others |

**Addl:** after Category of Bridge, the following detail (additional Parameter) shall be added

**Support system of Bridge**

|  |
| --- |
| Simply Supported |
| Continuous |
| Cantilever |

1. If there is no River for the Bridge then can we add Radio Button Option NA   
   for the Fields River/Stream is and Direction Of Flow ?  
    (Or)   
   To display River/Stream Details Fields only if Bridge over river is selected in the Bridge function Field.

The Following shall be updated

River/Stream is:

|  |
| --- |
| Perennial |
| Seasonal |
| Navigable |
| Not Applicable |

**Addl:** for - Name of River/Stream

This field should be displayed only if the user selects “Bridge Over River” in “Function of Bridge”

1. Direction of flow to be displayed as Left to Right and Right to Left, both Option is not there.

The Following shall be updated

|  |
| --- |
| L to R |
| R to L |
| Not Applicable |

1. After Saving the Record Going to main menu and again opening the page, Road Number and Road name Fields values are not showing any values they are empty.

This to be updated by the IT team

### Span Details

1. For Main Type of Super Structure as Pipe , Span Related Fields Span 1 Type, Length, Span 2 Type, Length and Span 3 Type, Length should not be displayed.

This to be updated by the IT team

1. For Main Type of Super Structure as any value Except Pipe, is it possible to Display span 4 Type. How the type of Span is decided ?

No changes

1. HFL from Bed Level field to be displayed only if the Bridge over a water body. (If displayed for all Please provide Not Applicable (NA ) option as well for this field).

This field should be displayed only if the user selects “Bridge Over River” in “Function of Bridge”

1. For only Bridges over water bodies Vertical Clearance above lowest bed Level should be displayed, for other brides Field name to be displayed as Vertical Clearance should be displayed.

The text shall be updated as - Vertical Clearance above LBL / GL (m)

**Addl:** for - Is the Bridge Overtopped

This field should be displayed only if the user selects “Bridge Over River” in “Function of Bridge”

### Protection Works Inventory

**“Protection Works Inventory”** Shall be renamed as **“Details of Protection Works”**

1. To Provide one more radio button Option Not Applicable for both the fields Bed material Type and Waterway is.

The Following shall be updated

Type of Bed Material

|  |
| --- |
| Soil |
| Boulders |
| Rock |
| Not Visible |
| Not Applicable |

Waterway is

|  |
| --- |
| Alluvial |
| Quasi Alluvial |
| Rigid |
| Not Applicable |

1. For Side Slope Pitching Type Display the Dropdown values as only “Concrete“ instead of Concrete Blocks.

No changes

1. Protection Works Condition section is not Required, do not display. Also Side Slope Pitching and Floor Protection Text Entry Fields which is shown after Protection Works Condition section are also not Required.

This will have to be updated by reviewing the app

1. If Possible Provide all retaining Wall Related Section Fields in this Page only.(Currently this retaining wall Section fields are in the Abutment Substructure Inventory Screen)

No Changes

1. For Floor Protection Type Dropdown Field, provide Not Applicable and Not Visible options as well.

For “Side Slope Pitching Provided” and “Type of Floor Protection” the following shall be updated

|  |
| --- |
| Yes |
| No |
| Not Applicable |

### Top Deck

1. Kerb on Bridge and Footpath provided Check Box Fields should not be Mandatory Fields.

This to be updated by the IT team

1. Please change the names for the check box fields as Is Approach Slab Provided, Are Drainage Spouts Provided, Are Expansion Joints provided.

No Changes

1. Type of Service Lines Field be configured as to store multiple Field values.

Request IT team if we can select multiple field values

1. Add one more option as “Kerb” for the radio button Field Location of Service Lines.

Location of Service Lines

|  |
| --- |
| Attached to Railing |
| Inside Footpath |
| Over the Footpath |
| Supported on bracket projected from Bridge |
| Inside Kerb |

### Abutment Foundation Inventory

1. First Foundation Type field to be displayed and then Foundation material.

IT Team shall update (First Type of Foundation shall be displayed and then Material. Same to be updated in Pier also

1. For Foundation Type Dropdown Display one more value “not Visible”.

In “Type of Foundation” – Add “Not Visible” in the Dropdown box. Same to be updated in Pier also

### Abutment Substructure Inventory.

1. Length on each Side Field to be displayed as 2wo Fields Length on A1 Side and Length on A2 Side. (To Recheck and confirm).  
   Under Retaining wall section the following shall be updated

Length on each side (m) shall be modified as

1. Length on LHS (m)
2. Length on RHS (m)

### Abutment Bearings and Restrainer Inventory.

1. Are Bearings Visible Check box field is not Required.

No changes

1. Check box and Dropdown Fields are not getting Copied to Abutment 2 page.

This to be updated by the IT team

### Abutment Foundation and Substructure Condition.

1. In the Cracks Section Height Field to be Removed and Crack width field to be added.

In cracking we have mentioned as Location of Cracks, Nature of Crack, Length of the Cracks (m) and Width of the Cracks (mm), Height is not given for cracking, this to be reviewed by IT Team

1. To display Full names for all the fields which are lengthy (Ex : Details of Deterioration and corrosion Field)

this to be reviewed by IT Team

### Abutment Super Structure Inventory.

1. Any Validation Present to verify the Span length field value entered in this page to that of the Span length entered in the Span Details page ?

-  
Width at Top and Width at Bottom two Fields are not Required just one field “Span Width” to be displayed.

No changes

### Pier Sub Structure Inventory.

1. The Sections to be displayed in the Sequence of Pier, Column and Pier cap.

No changes

In the Pier Section first type Field to be displayed and then material Field.

Update as follows - First “Type of Pier” shall be displayed and then “Material”

1. Cut/Ease water type field is not Required (Srinivas to recheck with Mahendra Sir)

No changes

### Super Structure Condition

1. If the Super Structure is selected as “Solid Slab” then display only “Deck Slab”, “Condition Tabs” for that Bridge. (Main Girders and Cross Girders Tabs are not Required.)

this to be reviewed by IT Team

1. Of the displayed 4 Tabs Condition Tab to be displayed at the end on the Screen.  
   The sequence of tabs should be “Deck slab, main Girders, Cross Girders, and Condition”.

This was discussed with IT team, Need to review the tab app – “Condition” to be renamed as “Deck Surface”

1. To Remove “No. of locations where Metallic Sound Appears in a Span” in the Deck Slab Section as it is displayed in the next section Soundness.

this to be reviewed by IT Team

1. Condition of joint between Deck Slab and Girders both Longitudinal and Traverse to be removed in the Deck Slab Condition Screen.

No changes

1. In the Spalling/Dampness Section No. of Location where Nuts are located Field is not Required in the Deck Slab Condition Screen.

this to be reviewed by IT Team – Sir to Clarify on this

1. To Create a new Tab Steel Girders (Srinivas to check with Mahendra Sir).

This is already Created, no changes

1. Anchorage Realted Section Fields are not Required to be dispalyed in the Deck Slab Condition Screen.

No changes

1. Damage to Structure to be made as Text Entry Fields. (currently only possible to enter Numeric Values).

this to be reviewed by IT Team

### Culverts:

1. CD Number and PWD km Stone chainage Fields should made Optional Fields.
2. For Bed material Radio Button Field not Visible Option to be added.
3. Span Related fields should not be displayed if the Culvert Type is Hume Pipe and Irish Causeway.
4. Pipe Structure Section fields (Fields that are displayed in Span Details Screen) to be displayed if the Culvert Type is Hume Pipe and Irish Causeway.
5. After Saving the Record Going to main menu and again opening the page, Road Category, Road Number and Road name Fields values are not showing any values they are empty.
6. For Flooring Apron Type new Radio Button option Not Visible should be added. If Not Visible option is selected then Flooring / Apron Condition u/s, Flooring / Apron Condition d/s fields should not be displayed. Same is the case for Curtain Wall/ Cut off Wall Provided Field.
7. For Side Slope Pitching Provided new Radio Button option Not Visible should be added.
8. Skew Angle Option with Square Option to be provided

### **Generic Observations**:

If there is an 6 or 8 lane Road and the Bridges is constructed (with 2 structures) as open median Bridge. After Increasing side Survey is completed, new Bridge code to be created for the Decreasing Side Survey?   
All the Site Engineers to click on Get Chainage either at Start , Middle or end of the Bridge ?  
same rule to be followed for all the Surveys.