QUALITY CONTROL DATA SHEETS

Narasimha Rao Yaganti
State Quality Monitor (AP-PMGSY) – ap0338520
Independent Quality Monitor (APRRP)

INFORMATORY SIGN BOARD

PRADHAN MANTRI
GRAM SADAK YOJANA

From ..... To .....
Length :..... Cost : Rs.....Lakh.....
Date of Commencement :..... Date of Completion :.....

PERIOD OF GUARANTEE BY CONTRACTOR 5 YEARS

Name & Address of Contractor :.....
.....
.
Name & Address of Officer Incharge :.....
.....

PROJECT FUNDED BY MINISTRY OF RURAL DEVELOPMENT, GOVT. OF INDIA
Work Executed by :.....Govt. of :.....

Size

- Size of board will be 1500mm x 900mm
- To be fixed at starting point of road.
  One board for one road upto 5 km. If road length is more, one additional board at finishing point of road.
- Bottom border in black colour will be used for writing slogan to be provided by the Ministry of Rural development.

Fig. 1(A) Logo Board at Starting Point

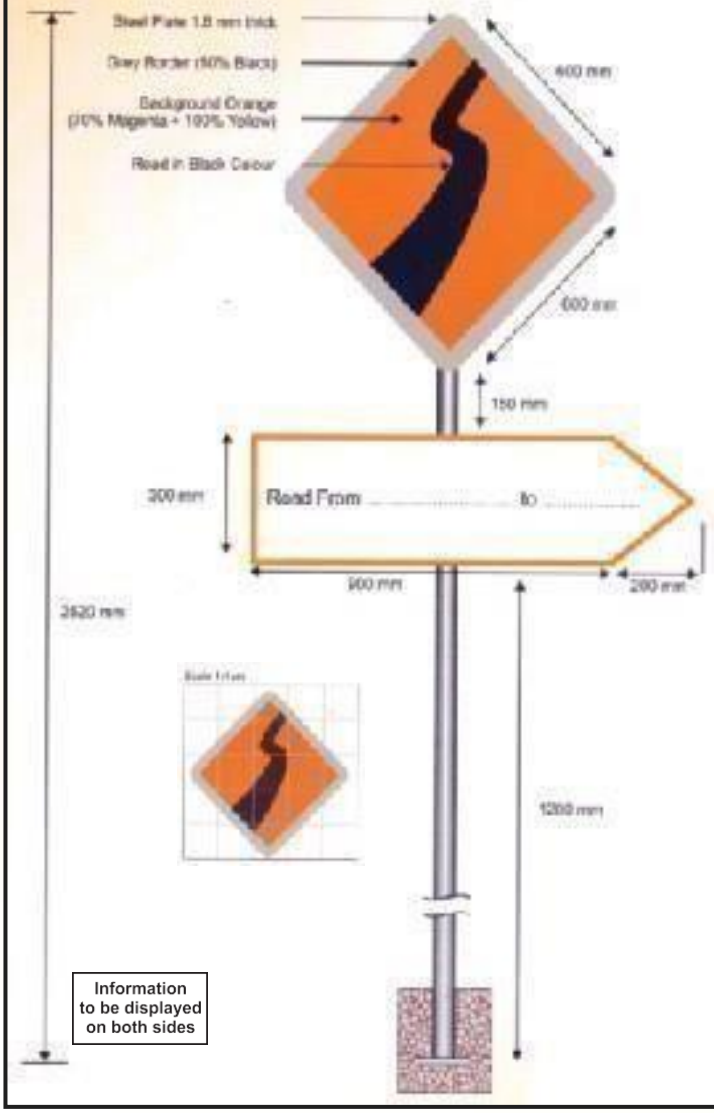


Fig. 1(B) Logo Board at Intermediate Distance

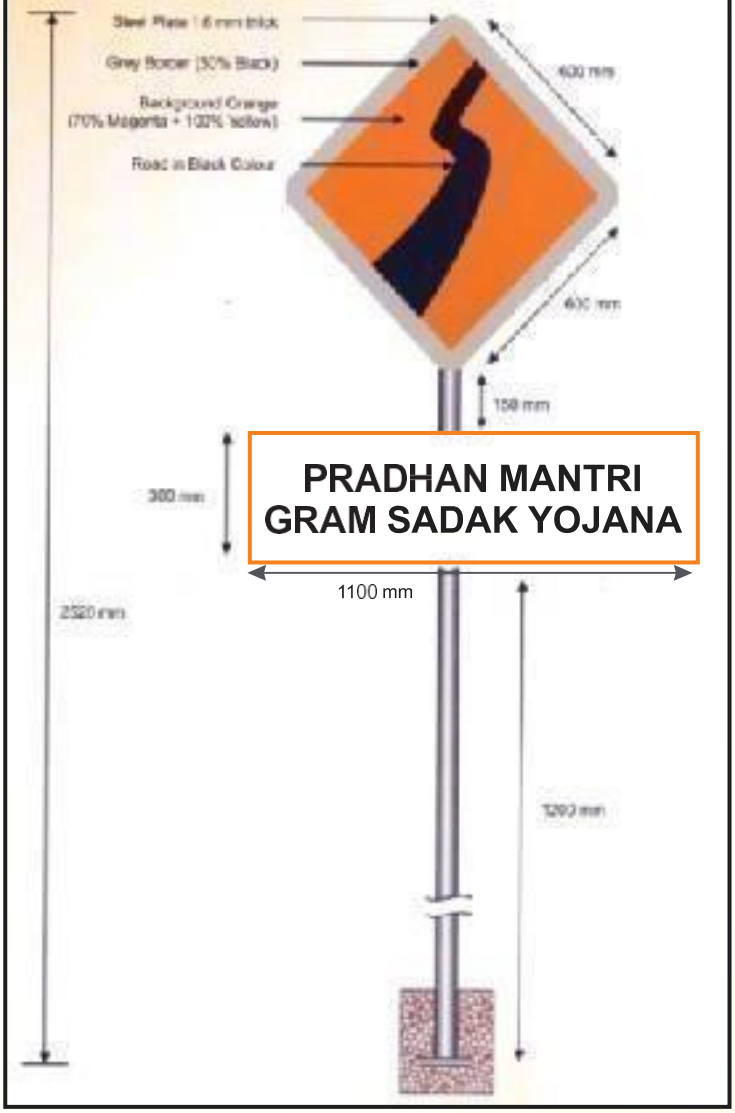
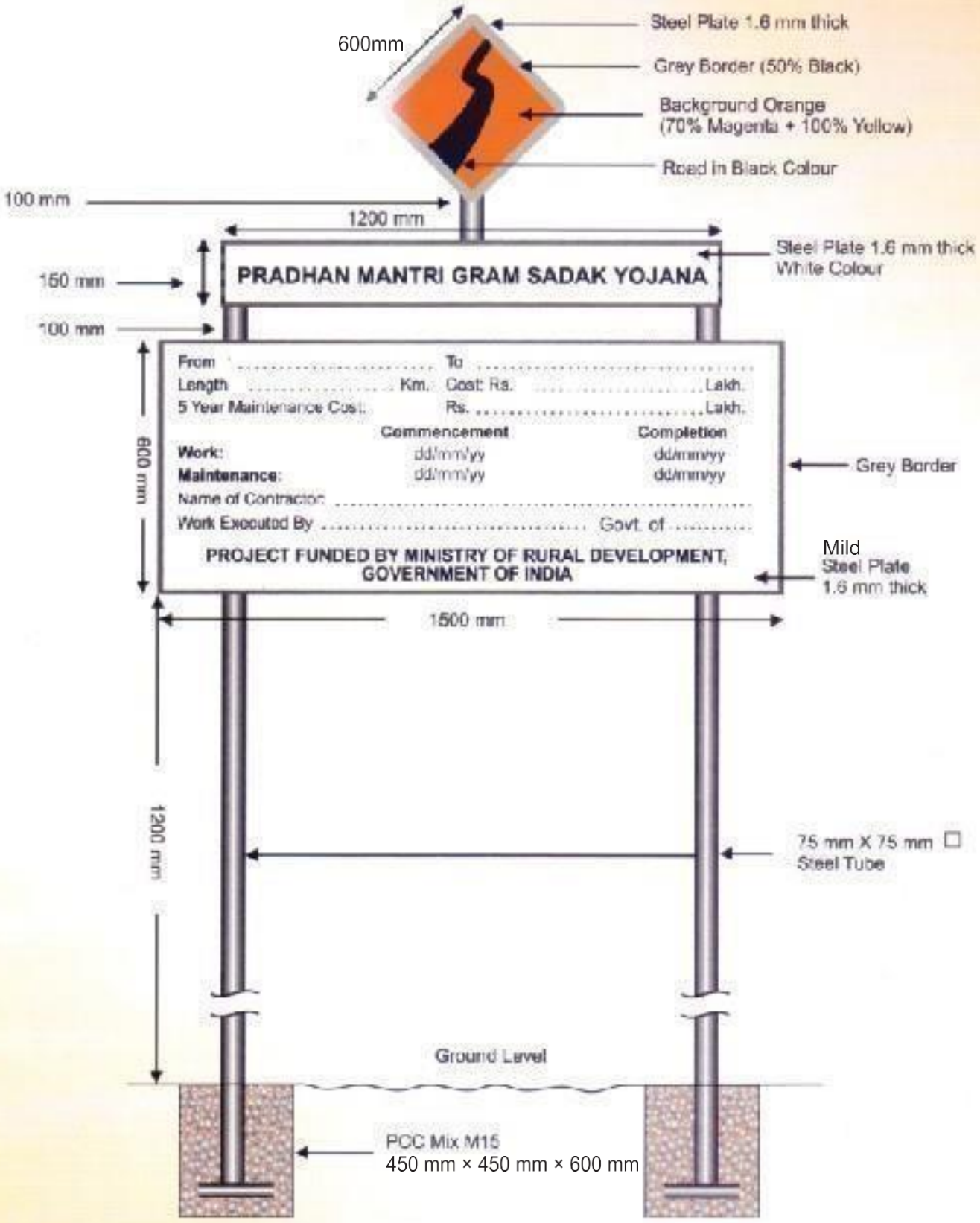
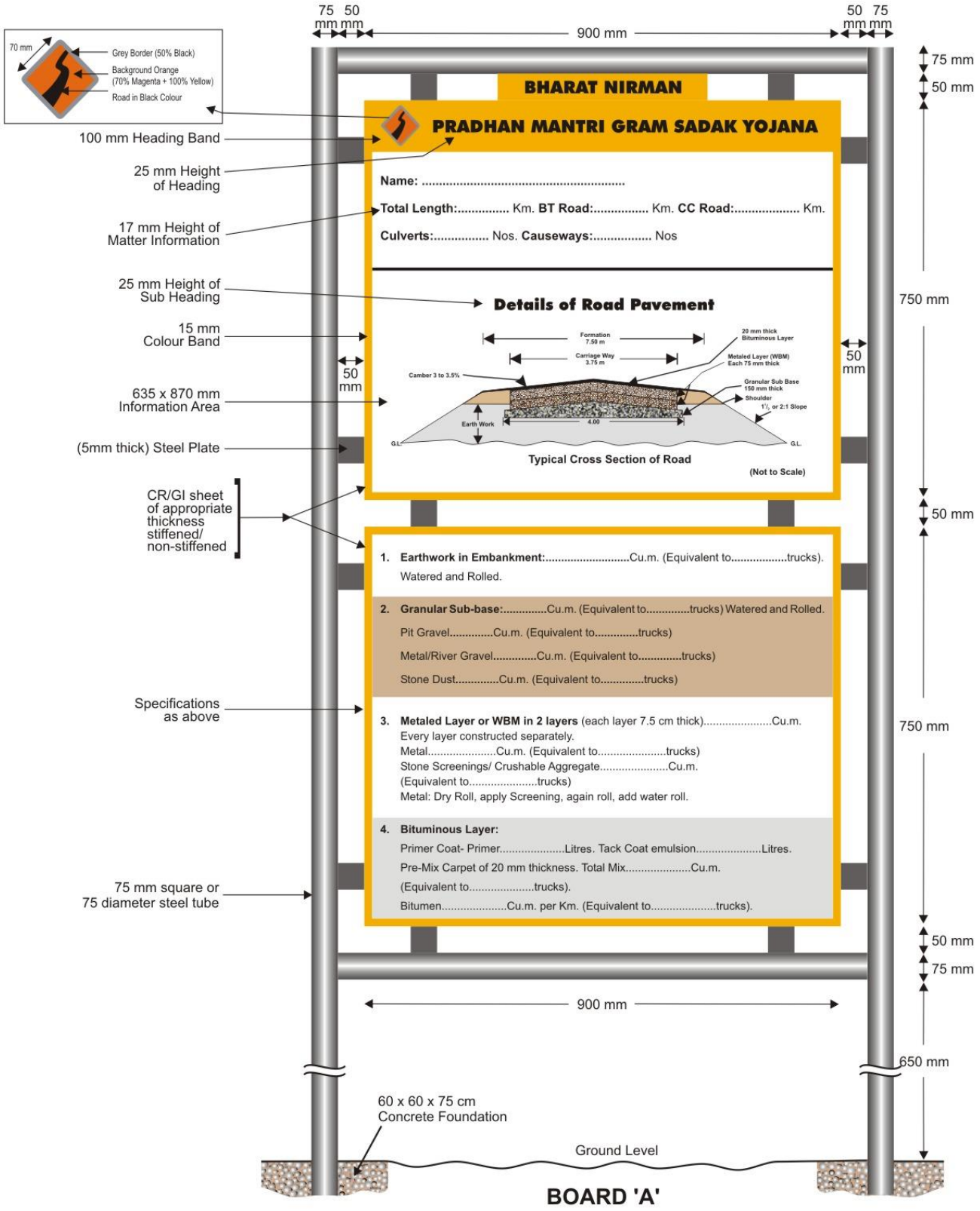


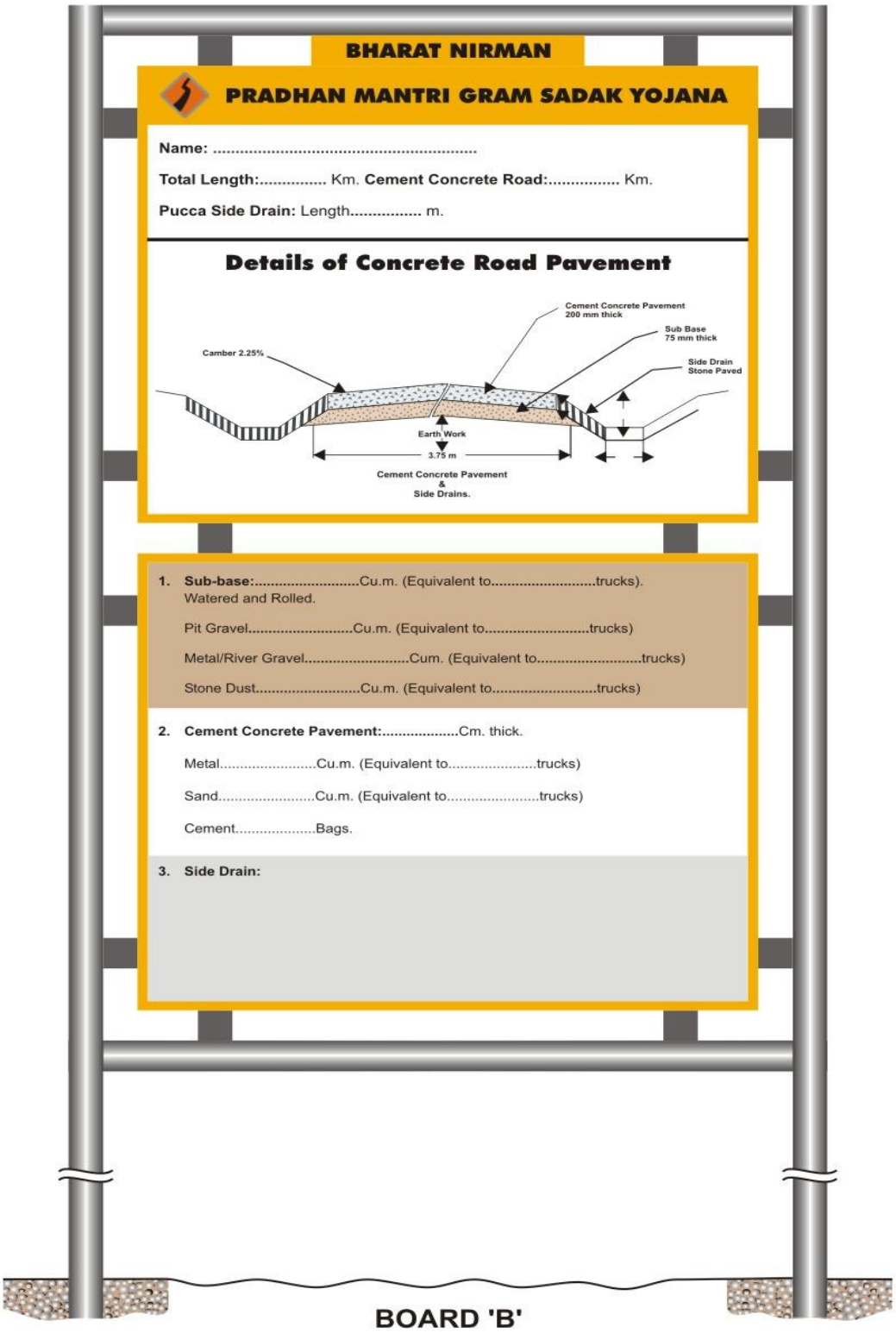
Fig.2 - Title Information Board



INFORMATORY SIGN BOARD-A



INFORMATORY SIGN BOARD-B



BOARD 'B'

Typical General Observations:

- QC Registers be issued by competent authority; QC Tests to be checked by AEE/DEE/EE as per required proportion
- TBMs: Well secured. About 4/km. Need not be exactly equidistant. Existing permanent structures (with flat top surface) can be utilized. They should be outside the construction area. Chainage, RL, and Staff position to be marked on each TBM
- Water Spouts (80 mm dia) to be provided in parapets of CD works (not in deck slab portion) to drain-off water
- At Causeways/slab culverts, Carriageway width to be gradually widened to that of deck slab widths
- Any obstructions in shoulder portion – trees / electrical poles/ rock outcrop – may be fixed with hazard markers
- For all horizontal curves, speed limit boards (if needed) to be fixed as per existing radius of curvature and provided super elevation.
- In upgradation works, where no extra width was provided earlier at horizontal curves, the same may be provided with CC.
- Road furniture: Direction-cum-Logo board to be fixed both at start and End Points. Information board to be fixed at End point. Logo boards to be fixed every 2 km Junction Design
- At all CD works, the road profiles to be properly aligned with CD top profile.
- Where a new layer is constructed to meet an existing layer, the profile transition must be smooth
- CC drains to be joined to storm water drains and side/catch drains must be integrated with CD works and finally water to be let-off in streams/low- lying ponds etc.
- Watch out for critical reaches of road, where more than condition – horizontal curve and/or gradient and/ or high embankment – exist. Provide suitable safety measures.
- Where existing geometrics – super elevation, extra widening, gradient etc., do not conform to specifications for any reason, suitable safety m e a s u r e s to be provided –like signage – steep gradient boards, speed limit boards, narrow road ahead boards etc.
- CD works should - preferably/have been - constructed along with formation. If constructed at later stages, it may result in improper surface profile and/or inadequate compaction of approach layers - subbase/base/surface - to these CD works.
- Provide 300 mm dia pipe crossing at required locations to let water pass agricultural fields and prevent damage to the road by farmers

Required Frequency of QC Tests, as per QCR-1:

Item of Work & Type if any	Name of the test	Required Frequency (With reference to Stage of Construction)		
		Prior	During	Post
Earth Work / Sub Grade	Particle Size Distribution	1 / Source / Km		
	CBR (Soaked)	1/Source/Km		
	Atterberg Limits	1 / Source / Km		
	MDD/OMC	1 / Source / Km		
	FDD		3/Day	2/Km
	Thickness		Regularly	
Granular Sub-Base	CBR (Soaked)	1 / km		
	Gradation	3/Source	1/Day	1/Km
	Atterberg Limits	3/Source	1/Day	
	MDD/OMC	1/Source		
	AIV	1/Source		
	FDD		3/Day	2/Km
	Thickness		Regularly	
Granular Base Course	MDD/OMC	2/Source		
	CBR (Soaked)	1/Source		
	Aggregate Impact Value (AIV) of Coarse Aggregate	2/Source	Random/Day	
	Flakiness Index (FI) of Coarse Aggregate	2/Source	Random/Day	
	Gradation	2/Source	1/Day	1/Km
	Atterberg Limits	2/Source		
	FDD		3/Day	2/Km
	Thickness		Regularly	
Shoulders	Particle Size Distribution	1/Source/Km		
	Atterberg Limits	1/Source/Km		
	MDD/OMC	1/Source/Km		
	CBR(Soaked)	1/Km		
	FDD		3/Day	2/Km
	Thickness		Regularly	
Bituminous Base Course	Aggregate Impact Value of Coarse Aggregate (AIV)	1/Source	1/Km	
	Gradation of Coarse Aggregate	1/Source	1/Day	
	Flakiness Index (FI) of Coarse Aggregate	1/Source		
	Binder Content		2/Day	2/Km
	Laying Temperature		Regularly	
	Compaction (for Design Mixes)		1/Day	2/Km
	Thickness		Regularly	
Bituminous Surface Course	Gradation	1/Source	2/Day	
	Flakiness Index (FI) of CA	1/Source		
	Aggregate Impact Value (AIV) of CA	1/Source	1/Km	
	Binder Content		2/Day	2/Km
	Laying Temperature		Regularly	
	Thickness		Regularly	
	Compaction (for Design Mixes)		3/Day	2/Km
Rigid/ Semi rigid pavement	Gradation of Aggregate	1/Lot		
	Flakiness Index (FI) of Coarse Aggregate	1/Source		
	Aggregate Impact Value (AIV) of Coarse Aggregate	1/Source		
	Compressive Strength		6 cubes/Day	
	Slump		Regularly	
	Dimensions & Workmanship			Regularly
Concrete for Structures	Gradation of Aggregates of CA	3/Source		
	Flakiness Index (FI) of Coarse Aggregate	3/Source		
	Aggregate Impact Value (AIV) of CA	1/Source		
	Gradation/Zone of FA	3/Source		
	Mix Design	1/Work		
	Slump		2/Day	
	Cube Strength		6/Day	Random
	Dimensions & Workmanship			Random