

THIRD PARTY VALIDATION FOR VARIOUS SCHEMES IN DISTRICT MANDI BAHUDDIN
Bill of Quantities for Field Investigation and Laboratory Testing

Sr. No.	Description	Unit	No. Of Tests	Rate per Unit (Rs)	Amount (Rs)
A	FIELD INVESTIGATIONS				
1	Extraction of asphalt chunk sample (1' X 1') from test pit locations.	No.	65		
2	Taking asphalt cores (4-inch dia) near each test pit location generally 3 cores (1 left side 1 right side and 1 from the center of the road) near the test pit location. (Rate per core)	No.	195		
3	Excavation of test pits and Performance of field density tests by sand replacement method in test pits generally @ three (03) to four (04) tests per pit at an interval of five (05) Km. on the existing road. Performance of Field Density Tests at the base course, sub-base one on each layer and sub-grade level two tests covering 30 cm. depth. Sampling includes labelling, packing, storage and transportation to an approved testing laboratory. (Rate per FDT)	No.	195		
4	Collection of composite samples (at least 60 kg). from the base course, sub-base and sub-grade, including their labelling, packing, storage and transportation to an approved testing laboratory.	No.	195		
5	Taking Concrete Cores from Rigid pavement in full depth (3 no cores per location)	No.	100		
6	Backfilling and compaction of test pits top six (06) inches with concrete (1:2:4) and remaining with retrieved material.	No.	65		
	Sub-Total:A				
B-1	LABORATORY TESTING (Asphalt Layer)				
1	Extraction gradation of asphalt samples. (Rate per Sample)	No.	65		
2	Making Molds for determination of Marshal Density (Gmb), and Void Analysis. (Rate per Set of Three Molds)	No.	65		
3	Determination of Maximum Specific Gravity (Gmm) by Rice Method. (Rate per Test)	No.	65		
4	Determination of Asphalt Cores Thickness and Density for Compaction. (Rate per Core)	No.	195		
B-2	LABORATORY TESTING (Granular Layers and Subgrade)				
1	Sieve Analysis. (WBM, Subbase, Subgrade) (Rate per Test)	No.	195		
2	Liquid and Plastic Limit. (Subbase, Subgrade) (Rate per Test)	No.	100		
3	Modified AASHTO Test. (WBM, Subbase, Subgrade)(Rate per Test)	No.	195		
4	3-Point CBR Test. (Subbase, Subgrade) (Rate per Test)	No.	130		
5	Determination of Thickness and Compressive Strength of Extracted Concrete Cores	No.	100		
	Sub-Total:B				
	Total (A+B)				

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Speial Notes:

- 1 Total test locations are approximately 65 pits.
- 2 The result test sheets along with result summaries shall be compiled in the form of a proper report for each road.
- 3 All samples shall be stored, transported and tested as per ASTM/AASHTO Standards.
- 4 Establishment of coordinates of all test pits shall be recorded with reference to the permanent benchmark established at the site by the Contractor.
- 5 Contractor shall be responsible for the arrangement of Personal Protective Equipment such as safety helmets and jackets for NESPAK site supervisory staff.
- 6 Contractor shall be responsible for taking permission from the Police and the concerned departments for working on the existing road.
- 7 Payments shall be made as per actual number of tests performed at site and in laboratory.
- 8 All sampling and testing at site and in laboratory shall be carried out in presence of NESPAK representative.
- 9 The quoted rates shall be inclusive of all applicable taxes.