

FIELD QUALITY PLAN

FOR


RECARPETING OF ROADS INSIDE FACTORY AREA



FACTORY CIVIL DEPARTMENT

BHARAT HEAVY ELECTRICALS LIMITED

BHOPAL

 BHOPAL FACTORY CIVIL DEPARTMENT		AUTHORISATION FOR DIFFERENT CATEGORIES OF CHECKS	
Classification of Check		Inspection Authority BHEL	Clearing Authority BHEL
Symbol	Description	Engineer-in-Charge	Sr. Engineer-in-Charge
A	Critical		
B	Major		
C	Minor		

NOTE :

- 1 Quantum of check shall be 100% for all characteristics unless otherwise mentioned in reference documents. Contractors will be responsible for getting the work inspected by inspecting authority after carrying out inspection by themselves as per Field Quality Plan.
- 2 In case of non-conformity, before accepting, clearing agency shall ensure disposition and the same shall be reflected in the log-sheet / protocol.
- 3 For checks where log sheets are not called for, suitable records shall be maintained in the form of log book / protocols.
- 4 Abbreviations used in the column "Type of Check" are

R : Record Verification
 M : Measurement
 V : Visual
 T : Test
- 5 Abbreviations used in the column "Format of Record" are

SR: Site Register
 TR : Test Report
- 6 In case of non-availability of inspecting/clearing authority of prescribed level the job shall be performed by higher authorities or the persons authorized by sectional head



FQP- RECARPETING OF ROADS INSIDE FACTORY AREA

DOC NO: FQP/FCX/20211021

REV NO: NIL

S No.	CHARACTERISTICS / ITEM	TYPE OF CHECK	INSTRUMENT	CLASS	QUANTUM/ FREQUENCY OF CHECK	REFERENCE DOCUMENT/ ACCEPTANCE STANDARD	FORMAT OF RECORD	REMARKS
1	GENERAL REQUIREMENTS							
(a)	Setting up of Field QA & QC laboratory	V	As agreed/required	A	Once prior to start of work	Tech Spec	SR	Contractor may also opt to get the material tested in outside reputed laboratory. In such a case, contractor has to establish a field laboratory with only instruments required for in-situ testing.
(b)	Availability of requisite laboratory setup & equipment in good working condition well before commencement of concerned activity .	V	As agreed/required	A	Once prior to start of work	Tech Spec	SR	
2	ROAD WORK							
2.1	Prime Coat/ Tack Coat							
(a)	Binder temperature for application	V & M	IS 73	A	At regular close intervals	As per IS:2386 Part-II, V, VI,VII IS:383	TR	
(b)	Rate of spread of Binder	V&M	IS 73	B	One test per day	As per IS 73	TR	
2.2	Bituminous Macadam							
(a)	Aggregate impact value	T	As per IS:2386 Part IV	A	One test per 100m3	As per IS:2386 Part IV	TR	
(b)	Flakiness index and elongation index of aggregates	T	As per IS:2386 Part I	A	One test per 200m3	As per IS:2386	TR	



BHOPAL

FQP- RECARPETING OF ROADS INSIDE FACTORY AREA

DOC NO: FQP/FCX/20211021

REV NO: NIL

S No.	CHARACTERISTICS / ITEM	TYPE OF CHECK	INSTRUMENT	CLASS	QUANTUM/ FREQUENCY OF CHECK	REFERENCE DOCUMENT/ ACCEPTANCE STANDARD	FORMAT OF RECORD	REMARKS
(c)	Grading of aggregates	T	As per IS:2386 Part I	B	One test per day	As per IS:2386	TR	
(d)	Water absorption	T	As per IS:2386 Part III	B	One test per 100m ³ of aggregate	As per IS:2386	TR	
(e)	Binder Content	T	As per IS:73	A	One test for each 100 tonnes of mix subject to minimum of two	IS 73	TR	
(f)	Control of temperature of binder and aggregate for mixing and of the mix at the time of laying and rolling	T	As per instructions of Engineer Incharge	C	At regular close intervals	As per instructions of Engineer Incharge	SR	
(g)	Rate of spread of mixed material	T	As per instructions of Engineer Incharge	C	Regular control through checks of layer thickness	As per instructions of Engineer Incharge	SR	
3	Bituminous Concrete / Semi Dense Bituminous Concrete							
(a)	Aggregate impact value	T	As per IS:2386 Part IV	B	One test per 100m ³ of aggregate	As per IS:2386 Part IV	TR	
(b)	Flakiness index and elongation index of aggregates	T	As per IS:2386 Part I	B	One test per 200m ³ of aggregate	As per IS:2386 Part IV	TR	



BHOPAL

FQP- RECARPETING OF ROADS INSIDE FACTORY AREA

DOC NO: FQP/FCX/20211021

REV NO: NIL

S No.	CHARACTERISTICS / ITEM	TYPE OF CHECK	INSTRUMENT	CLASS	QUANTUM/ FREQUENCY OF CHECK	REFERENCE DOCUMENT/ ACCEPTANCE STANDARD	FORMAT OF RECORD	REMARKS
(c)	Grading of aggregates	V&M&T	As per IS:2386 Part I	B	One set of test on individual constituent and mixed aggregates from dryer for each 100 tonnes of mix subject to a minimum of two sets per plant per day	As per IS:2386 Part I	TR	
(d)	Water absorption	T	As per IS:2386 Part III	B	One test per 100m3 of aggregate	As per IS:2386 Part III	TR	
(e)	Binder Content	T	As per IS:73	A	One test for each 100 tonnes of mix subject to minimum of two tests per day per plant	As per IS:73	TR	
(f)	Control of temperature of binder and aggregate for mixing and of the mix at the time of laying and rolling	V&M	As per instructions of Engineer Incharge	C	As per instructions of Engineer Incharge	As per instructions of Engineer Incharge	SR	
(g)	Rate of spread of mixed material	M	As per instructions of Engineer Incharge	C	As per instructions of Engineer Incharge	As per instructions of Engineer Incharge	SR	