

FIELD QUALITY PLAN

FOR

Civil and allied work for Vande Bharat Project in BHEL Jhansi.



FACTORY CIVIL DEPARTMENT

BHARAT HEAVY ELECTRICALS LIMITED

JHANSI


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NOTE :

- 1 Contractors will be responsible for getting the work inspected by inspecting authority after carrying out inspection by themselves as per Field Quality Plan.
- 2 Abbreviations used in the column "Type of Check" are
R : Record Verification
M : Measurement
V : Visual
T : Test
- 3 Abbreviations used in the column "Format of Record" are
SR: Site Register
TR: Test Report
TC: Test Certificate
MTC: Manufacturer's Test Certificate

		STATEMENT OF CHECKS			DOC NO: FQP/FCX/VB/Civil	
					REV NO: NIL	
S No.	CHARACTERISTICS / ITEM	TYPE OF CHECK	QUANTUM/ FREQUENCY OF CHECK	REFERENCE DOCUMENT/ ACCEPTANCE STANDARD	FORMAT OF RECORD	REMARKS
1.0	CAST-IN-SITU CONCRETE					
1.1	COARSE AGGREGATE (20 mm)					
1.1.1	Water absorption	T	Once per source & for on every change of source	As per IS:2386 Part-III	TC/MTC	
1.1.2	Gradation (Sieve Analysis), Flakiness and Elongation	T	Once per source & for on every change of source	As per IS:2386 Part I	TC/MTC	
1.1.3	Impact Value, Crushing Value and Abrasion Value	T	Once per source/on every change of source	As per IS:2386 Part IV	TC/MTC	
1.2	FINE AGGREGATE (10mm)					
1.2.1	Water absorption	T	Once per source & for on every change of source	As per IS:2386 Part-III	TC/MTC	
1.2.2	Gradation (Sieve Analysis), Flakiness and Elongation	T	Once per source & for on every change of source	As per IS:2386 Part I	TC/MTC	
1.2.3	Impact Value, Crushing Value and Abrasion Value	T	Once per source/on every change of source	As per IS:2386 Part IV	TC/MTC	
1.3	SAND					
1.3.1	Fineness Modulus (Sieve analysis)	T	Once per source & for on every change of source	As per IS:2386 IS:383/ APSS 10	TC/MTC	
1.3.2	Silt Content and Clay Content	T	Once per source & for on every change of source	As per IS:2386 Part II	TC/MTC	
1.3.3	Bulkage/Moisture Content	T	Once per source & for on every change of source	As per IS:2386 Part III	TC/MTC	
1.4	CONCRETE					
1.4.1	Crushing strength	T	Once per 50 cum or part thereof	IS:516 & IS:456, IS:10262	TC/MTC	
1.4.2	Laying and Mixing of concrete	V	Random	As per site requirement	SR	
1.4.3	Curing	V	Random	As per site requirement	SR	
2.0	Galvalume Sheet					
2.1	Total coated metal thickness	T	Per Lot	As per item specification	TC/MTC	0.5 mm Total coated thickness
2.2	Tensile strength	T	Per Lot	As per item specification	TC/MTC	Minimum 550 Mpa
2.3	Zinc Aluminium Alloy Coating	T	Per Lot	As per item specification	TC/MTC	Minimum 150 gsm/sqm total of both side as per AZ 150
2.4	SMP Colour Coating	T	Per Lot	As per item specification	TC/MTC	Exposed Face 20 micron and Back coat pre coating of 5-7 micron.
2.5	Pitch	T	Per Lot	As per item specification	TC/MTC	Maximum 205 mm C/C
2.6	Crest	T	Per Lot	As per item specification	TC/MTC	Minimum 28 mm
3.0	Polycarbonate Sheet					
3.1	Thickness	T	Per Lot	As per item specification	TC/MTC	Minimum 3 mm
3.2	UV Resistance	T	Per Lot	As per item specification	TC/MTC	Should be UV resistant
4.0	Fabrication Work					
4.1	Visual checks	V	Random	As per item specification	SR	
4.2	Paint					
a	Make of Paint	V	Per Lot	As per item specification	SR	Asian, Berger, Nerolac, Shalimar
4.3	Primer					
a	Make of Paint	V	Per Lot	As per item specification	SR	Asian, Berger, Nerolac, Shalimar

Note:

- The tests/procedure mentioned above are only indicative and any other test required to maintain/improve/access the quality of work shall also form part of Field Quality Plan.
- Testing over any item/material (if necessary) shall only be carried out if the executed value for the said item is more than Rs. 50,000.00

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