Annexure I

DETAILED SYLLABUS OF PART A

Particulars	Syllabus - General (Part A)
General Knowledge	 Facts about India and other countries: Basic facts / Geography / Tourism / Transport systems / Personalities / Places / History / Constitution / Economy / Writers / Literatures / Indian States & Union Territories / International Organizations. General Science: Branches of studies / Scientific instruments and appliances / Physics / Chemistry / Biology Sports & Games Important Events / Movements / Leaders / Places / Years Writers - Authors - Biography - Autobiography Abbreviations
General English	 Spotting Errors / Vocabulary usage / Sentence Completion / Synonyms / Antonyms / Reconstruction of sentences / One word substitution / Idioms & Phrases / Grammar / Correct usage of Articles / Prepositions / Singular and Plural
Reasoning	 Analogy / Classification / Series Completion / Coding-Decoding / Blood Relation / Direction Sense Test / Alphabet Test / Number and Ranking / Puzzle Test / Odd Man out / General Intelligence
Quantitative Aptitude	 Number system / Fraction and Decimals / Simplification / Volume and surface areas / Square roots and Cube roots / Problems based on numbers, Speed, Time and Distance, Simple Interest / Compound Interest / Boats and Streams / Problems on Trains / Percentage - Interest / HCF and LCM / Average / Ratio and Proportion / Time and Work / Problems based on ages / Profit, Loss and Discount, Statistics / Permutations & Combinations / Probability.

DETAILED SYLLABUS OF PART B

Sl No	Name of Post	Syllabus – Trade related (Part B)
1.	Operator	Theoretical and application knowledge on
	(Crane)	Types of Cranes and Crane operations
		Different type of Lifting Methods.
		Basic Rigging methods including various communication methods, Check
		and maintenance of Crane ropes, Rope pulleys, shackles Load hooks and end
		fittings, Standard safety practices while operating Different types of cranes
		Basics of Electrical & Mechanical systems including various braking systems
		in Cranes, Operational interlocks, Safety devices used in Cranes, latest
		technologies etc.
		Safety Procedures, First-aid and Awareness of Industrial Rules and
		Regulations.
		Maintenance aspects in Cranes including Mechanical, Electrical and
		Electronics
		Basics of Machineries including measuring methods
		Types of Material Handling Equipment.
2.	Operator (Pipe	Theoretical and application knowledge on
	Bending)	Measurement tools- Vernier callipers/ dial gauges etc. Types of Metavial Handling Equipment.
		Types of Material Handling Equipment Maintanana and State of Market State of S
		Maintenance aspects including Mechanical, Electrical and Electronics Parises of Florida and Florida arises.
		Basics of Electrical and Electronics But the Company of the
		Basics of Machineries B: B
		Pipe Bending processes.
		Tools nomenclature
		Bench tools
		Drawings and standards- Limits / fit / clearances etc.
		Types of Materials related to pipes.
		Industrial safety & Safety Procedures.

Sl No	Name of Post	Syllabus - Trade related (Part B)	
3.	Welder Cum Theoretical and application knowledge on		
	Fitter [Welder/	-	
	Welder (Gas &	•	
	Electric)]	Weld joint nomenclature and welding symbols	
		Welding and cutting tools	
		Welding techniques	
		Welding defects and remedial actions	
		Specification of Welding rods as per AWS	
		Gouging methods	
		Welding of Carbon steel/Al/Austenitic SS/High strength low alloys	
		Pipe welding – Cu, Ni and SS material	
		 Modern welding procedures – SAW/ TIG/ CO2/ Electro gas welding 	
		FCAW process with ceramic backing	
		One side welding for panel welding	
		Testing of weld joints	
		Safety procedures/First aid	
		Types of material handling equipment	
4.	Operator	Theoretical and application knowledge on	
	(Plate	Types of Painting	
	Preservation)	Different types of Blasting Methods	
		 Safe operating Procedures in Painting and Blasting. 	
		 Maintenance aspects in Blasting and Painting including Mechanical, 	
		Electrical and Electronics	
		 Different type of Lifting Methods, Tools, Ropes and rigging in cranes 	
		including maintenance aspects.	
		• First aid	
		Basics of Machineries including measuring methods	
		Types of Material Handling Equipment	
5.	Welder Cum	Theoretical and application knowledge on	
	Fitter (Fitter)	 Tools Bench wise/Files etc 	
		 Marking and measuring tools 	
		• Limit/Fits/Tolerance	
		 Numerical ability – Mass/Volume/density/unit conversion/unit system 	
		Physical properties of metals and specific usage	
		Different Joining Methods	
		Welding Methods	
		Overhauling of machineries	
		Maintenance aspects	
		Shaft alignment and shaft sighting	
		Bedding or Chocking of machinery foundations Output Description:	
		Safety procedures /First aid	
		Types of material handling equipments	