## Technical Specification for pharmaceutical product: co-formulated tablet of Artemether + Lumefantrine is as follows:

Aspect	Requirement						
1. FINISHED PHARMACEUTICAL P	RODUCT (FPF	P)					
1.1 Product identification and description	ARTEMETHER 20 mg LUMEFANTRINE 120 mg Recommended regimen by weight and age Artemether 20 mg and Lumefantrine 120 mg Tablets should be yellow coloured, circular, uncoated, flat faced, bevelled edged, matt finished tablets with a break line on one side and plain on the other side.  Note: For 6 months to <3 years age group, dispersible tablets (DT) are preferable (WHO prequalification is mandatory for GF supported schedule).  The packing should be as under for different age groups based on Kg body weight.						
		Co-formulated tablet	5–14 kg (6 months- <3 years)	15–24 kg (≥ 3–8 years)	25–34 kg (≥ 9–14 years)	> 34 kg (> 14 years)	
		Dose	20 mg/ 120 mg twice daily for 3 days	40 mg /240 mg twice daily for 3 days	60 mg /360 mg twice daily for 3 days	80 mg /480 mg twice daily for 3 days	
			Pack size				
		20 mg Artemether +120 mg Lumefantrine	6	12	18	24	
		Colour of the pack	Yellow	Green	Red	White	
1.2 Packaging							
Protective function	use throu containing in easily r the same	ging must be designed to ghout the stated shelf-life g all the doses of a treatm ecognizable subunits. All primary, secondary and to or closure system as that	e. ACTs should nent course in a packaging mustertiary packagi	be prepackaged well-designed st be tamper-ev	d into course-o blister pack, wi ident. Products	f-therapy pac ith the individ s must be sup	k sizes, ual doses plied in

Aspect	Requirement				
1.2.1 Primary Packaging (in direct contact with the dosage form)					
Packaging materials	Primary packaging materials must be considered safe for use with the dosage form and for the intended route of administration. Containers must not interact with contents or have been adversely affected by manufacturing processes.				
Marking	Primary packs should be marked as follows: (specify). Specify any required marking, e.g. "for NVBDCP use only – not for sale". And not recommended during the first trimester of pregnancy and for children weighing < 5 kg (or <6 months of age).				
Packaging Type	The primary package should contain 10 courses of the specified age group.				
1.2.2. Secondary Packaging					
Packaging type	Each box containing 10 primary packages (10*10)of the specified age group.				
1.2.3 Tertiary Packaging					
Packaging type	Each box containing 10 secondary packages (100*10)of the specified age group.				
1.2.4 Other Packaging					
Batch segregation	Each unit of packaging should contain products from no more than one batch of pharmaceuticals.				
1.3 Labeling The following lal	bel information is required on all unit packs:				
Label	All FPPs must be labeled as required by national legislation in the country.				
Strength	Amount of each API per dosage unit, per unit of weight,				
Dosage form	Pharmaceutical dosage form (e.g. tablet,)				
Excipients	List any excipient contained in the product known to have a recognized action or effect (as included guideline on Excipients in the label and package leaf let of medicinal products for human uses).				
Pharmacopoeial standard	Pharmacopoeial standard as described in the International, British Pharmacopeia/ Indian Pharmacopeia if available. The current edition should always apply.				
Quantity	Net quantity per unit pack labeled on that unit pack (primary, secondary, tertiary)				
1.4 Storage Instructions					
Storage instructions	Storage instructions and any special storage or handling precautions				
Storage conditions during transport	Recommended temperature and humidity conditions during transport				
1.5 Instructions for use					

Aspect	Requirement				
Instructions for use and warnings and precautions that may be necessary (e.g. not recommended during the first trimester of pregnancy and for children weighing < 5 kg (or <6 months of age).					
1.6 Batch Number					
Batch number	Batch number assigned by the manufacturer				
1.7 Manufacture date	Manufacture date in an uncoded form				
	Expiry date in an uncoded form, preferably in the format MM/YYYY. Four digits must be used for the year.				
1. 9 Instructions for storage after ope	ning Limited shelf-life after the primary package is opened, if applicable, should be super scribed.				
1.10 Product Information					
Patient information leaflet (package insert)	A detailed insert or patient information leaflet must be included within the secondary package or attached to the primary pack. The manufacturer's name and license number must be indicated on the package insert.				
Storage conditions	Recommended temperature and humidity during transport, storage and use, as determined in stability studies, must be stated on the package insert, giving both lower and upper limits, when applicable.				
1.11 Quality Control Standards and co	ompliance with specifications				
Pharmacopoeial monograph	The product must comply with specific monographs of the International/ British pharmacopoeia/ Pharmacopeia. Any additional specifications must be provided.				
WHO Pre Qualified Product or Authorization by Stringent Regulatory Authority	, in the second of the second				

1.12 Shelf life			
Shelf-life	Minimum 24 months. At least 5/6th of the minimum shelf life must remain at the time of delivery to the consignee. The supplier will provide manufacturer's stability test data substantiating the claimed shelf life in the offered package.		
1.13 Active Pharmaceutical Ingredient (API)			
GMP	A GMP certificate should be supplied for each source site of APIs.		
Certification	API(s) must be authorized for use in pharmaceutical products with marketing authorization in the country of manufacture		

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