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Prequalification Unit Inspection services WHO PUBLIC INSPECTION REPORT

Desk Assessment of Finished Product Manufacturer

Part 1	General information				
Company information	ompany information				
Name of	Sun Pharmaceutical Industries Limited				
Manufacturer					
Corporate address of	Sun Pharmaceutical Industries Limited				
manufacturer	Sun House, CTS No.201 B/1, Western Express Highway, Goregaon E, Mumbai				
	40006	400063, India			
	+9122	+912243244324			
Inspected site					
Name & address of	Sun P	harmaceutica	l Industries Limited		
manufacturing site	Villas	ge Ganguwala	a, Paonta Sahib, District Sirmour, Himachal Pradesh, 173 025		
	India				
	+911	704227779			
	GPS (coordinates:			
	30.43	8°N			
	77.62	4°E			
	DUN	S: 650456754	1		
Production	A, B,	C, D, E, F, G	and H		
Block/Unit					
Desk assessment detai	ls				
Start and end dates of	19 - 2	27 November	2020		
review					
Products covered by		PQ	Product name		
this desk assessment		number			
	1	HA286	Lamivudine/Zidovudine Tablet, Film-coated 150mg/300mg		
	2	HA699	Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil		
			fumarate 50mg/300mg/300mg Film-coated Tablet		
	3	HA698	Abacavir (sulfate)/Lamivudine 600mg/300mg Film-coated		
			Tablet		
4 HA306 Efavirenz Tab					
			Efavirenz Tablet, Film-coated 600mg		
		HA306 HA323	Efavirenz Tablet, Film-coated 600mg Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated		
			Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated		
	5	HA323	Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated 150mg/200mg/300mg		
	5	HA323	Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated 150mg/200mg/300mg Lamivudine/Tenofovir disoproxil fumarate Tablet, Film-		
	5 6	HA323 HA525	Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated 150mg/200mg/300mg Lamivudine/Tenofovir disoproxil fumarate Tablet, Film-coated 300mg/300mg		
	5 6	HA323 HA525	Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated 150mg/200mg/300mg Lamivudine/Tenofovir disoproxil fumarate Tablet, Film-coated 300mg/300mg Emtricitabine/Tenofovir disoproxil fumarate Tablet, Film-		
	5 6 7	HA323 HA525 HA551	Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated 150mg/200mg/300mg Lamivudine/Tenofovir disoproxil fumarate Tablet, Film-coated 300mg/300mg Emtricitabine/Tenofovir disoproxil fumarate Tablet, Film-coated 200mg/300mg		
	5 6 7 8	HA323 HA525 HA551 HA708	Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated 150mg/200mg/300mg Lamivudine/Tenofovir disoproxil fumarate Tablet, Film-coated 300mg/300mg Emtricitabine/Tenofovir disoproxil fumarate Tablet, Film-coated 200mg/300mg Dolutegravir (Sodium) Tablet, Film-coated 50mg requalified		
List of documents	5 6 7 8 9	HA323 HA525 HA551 HA708 HA742 Ianufacturing	Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated 150mg/200mg/300mg Lamivudine/Tenofovir disoproxil fumarate Tablet, Film-coated 300mg/300mg Emtricitabine/Tenofovir disoproxil fumarate Tablet, Film-coated 200mg/300mg Dolutegravir (Sodium) Tablet, Film-coated 50mg requalified Atazanavir (sulfate)/Ritonavir Tablet, Film-coated 300mg/100mg authorization issued by Health & Family Welfare Department		
List of documents submitted	5 6 7 8 9	HA323 HA525 HA551 HA708 HA742 Innufacturing	Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated 150mg/200mg/300mg Lamivudine/Tenofovir disoproxil fumarate Tablet, Film-coated 300mg/300mg Emtricitabine/Tenofovir disoproxil fumarate Tablet, Film-coated 200mg/300mg Dolutegravir (Sodium) Tablet, Film-coated 50mg requalified Atazanavir (sulfate)/Ritonavir Tablet, Film-coated 300mg/100mg		

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- 2. GMP certificate No NL/H17/2001788A, issued by Dutch Health Care and Youth Care Inspectorate on 19 August 2019
- 3. TGA post inspection letter
- 4. TGA inspection report
- 5. TGA CAPAs acceptance document
- 6. Master manufacturing instructions:
 - Atazanavir blend of Atazanavir and Ritonavir tablets 300mg/100mg, product code XX
 - Atazanavir blend of Atazanavir and Ritonavir tablets 300mg/100mg, product code YY
 - c. Ritonavir blend of Atazanavir and Ritonavir tablets 300mg/100mg, product code XX
 - d. Ritonavir blend of Atazanavir and Ritonavir tablets 300mg/100mg, product code YY
 - e. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code XX
 - f. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code YY
 - g. Lamivudine/Zidovudine Tablet 150mg/300mg, product codes XX, YY, ZZ, VV
 - h. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate blend 50mg/300mg/300mg Film-coated Tablet, product code XX
 - i. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate 50mg/300mg/300mg Film-coated Tablet, product code YY
 - j. Abacavir (sulfate)/Lamivudine 600mg/300mg Tablet, product code XX
 - k. Efavirenz 600mg Tablet, product code XX
 - 1. Lamivudine/Nevirapine/Zidovudine Tablet 150mg/200mg/300mg product codes XX, YY
 - m. Lamivudine/Tenofovir disoproxil fumarate Tablet 300mg/300mg, product code XX
 - n. Emtricitabine/Tenofovir disoproxil fumarate Tablet 200mg/300mg, product code XX
 - o. Dolutegravir (Sodium) Tablet 50mg, product code XX
 - p. Nevirapine Tablet 200 mg, product code YY
- 7. Master packaging instructions:
 - a. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code XX
 - b. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code YY
 - c. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code ZZ
 - d. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code AA
 - e. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code BB
 - f. Lamivudine/Zidovudine Tablet 150mg/300mg, product code XX
 - g. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate 50mg/300mg/300mg Film-coated Tablet, product codes XX, YY, ZZ
 - h. Abacavir (sulfate)/Lamivudine 600mg/300mg Tablet, product codes XX, YY, ZZ
 - i. Efavirenz 600mg Tablet, product code XX
 - j. Lamivudine/Tenofovir disoproxil fumarate Tablet, 300mg/300mg, product codes XX, YY, ZZ, AA
 - Emtricitabine/Tenofovir disoproxil fumarate Tablet 200mg/300mg, product code XX
 - l. Dolutegravir (Sodium) Tablet 50mg, product codes XX, YY, ZZ, AA



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	m. Nevirapine Tablet 200 mg, product codes XX, YY
	8. BMR/BPR and analytical raw data:
	a. Atazanavir blend of Atazanavir and Ritonavir tablets 300mg/100mg,
	product code XX, batch YY
	b. Ritonavir blend of Atazanavir and Ritonavir tablets 300mg/100mg,
	product code XX, batch YY
	c. Efavirenz 600mg Tablet, product code XX, batch YY
	d. Lamivudine/Nevirapine/Zidovudine Tablet 150mg/200mg/300mg,
	product code XX, batch YY Delute gravit (See Jimp) (Legrity dia e/Ten of evin Discourse); formente
	e. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate
	50mg/300mg/300mg Tablet blend, and Tablet product code XX, batch
	YY 6. At a property (15.4.)/Pit propin T. 11.4.200 pro//100 pro. 1.4.1. VV
	f. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, batch XX
	g. Lamivudine/Zidovudine Tablet 150mg/300mg, product code XX, batch
	YY (BMR/BPR) – parent batch
	h. Lamivudine/Zidovudine Tablet 150mg/300mg, product code XX, batch
	YY (BPR)
	i. Lamivudine/Zidovudine Tablet 150mg/300mg, batches XX, YY
	(analytical raw data)
	j. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate
	50mg/300mg/300mg Tablet blend, product code XX, batch YY
	9. PQRs:
	a. Lamivudine/Zidovudine Tablet, Film-coated 150mg/300mg Jan 2019 –
	Dec 2019, product code XX
	b. Lamivudine/Zidovudine Tablet, Film-coated 150mg/300mg Jan 2019 –
	Dec 2019, product code XX
	c. Lamivudine/Zidovudine Tablet, Film-coated 150mg/300mg Jan 2019 –
	Dec 2019, product code XX
	d. Efavirenz Tablet, Film-coated 600mg Jan 2019 – Dec 2019, product code
	XX
	e. Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated
	150mg/200mg/300mg Jan 2019 – Dec 2019, product code XX
	f. Lamivudine/Zidovudine Tablet, Film-coated 150mg/300mg Jan 2018 –
	Dec 2018, product code XX
	g. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate
	50mg/300mg/300mg Film-coated Tablet Jan 2018 – Dec 2018, product
	codes XX and YY
	10. Self-inspection (Quality system Audit) schedule – execution details
	11. List of manufacturing blocks covered by TGA inspection 22 – 24 November
	2017
	12. List of Upcoming inspections in the next 6 months
	13. List of recalls from 2017 – 2020
	14. List of GMP inspections last 5 years
	15. List of products manufactured at the site
	16. SMF SPILP/DF/SMF/008, dated 28 Jan 2020 and 8 Appendixes
Any documents	No
missing?	

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Part 2	Summary of SRA/NRA inspand comments	ection evidence considered (from most recent to last)			
TGA Australia	Dates of inspection:	22-24 November 2017			
	Type of inspection:	GMP inspection			
	Block:	Blocks: A, C, E, F, G and H			
	Type of products/Dosage	Tablets and hard-shell capsules			
	forms covered:	WHO products under PQ were not specifically			
D4 2	C	covered			
Part 3 Date and conclusion	Summary of the last WHO				
of most recent WHO	10 – 12 October 2017 joint inspection WHO and Dutch Health Care and Youth Care Inspectorate.				
inspection	inspectorate.				
mspection	CAPAs were evaluated and ac	ecepted by WHO and Dutch Health Care and Youth			
		ion was closed as GMP compliant on 5 April 2018.			
Summary		s Limited (hereafter named "Sun"), located in Paonta			
of		lia, is a large multiproduct manufacturing site for			
manufacturing	pharmaceutical finished dosag	ge forms.			
activities as of					
October 2017 General	Sum manufactures a vida ren	as of sometic modicinal and ducts for wouldwide modicate			
information		ge of generic medicinal products for worldwide markets			
about the	including the EU market. Dosage forms are tablets, hard capsules and soft capsules. The annual capacity is over 6000 million tablets and capsules.				
company	The aimual capacity is over 6000 immon tablets and capsules.				
and					
manufacturing					
site as of October					
2017					
Focus of the last WHO inspection	All authorized EU and WHO	products were included in the scope.			
Areas inspected All products for the EU market and WHO programs (refer to the list above)					
		ed including manufacturing, QC testing and warehousing.			
	 Pharmaceutical Quality S 	scope are A, B, C, D, E, F, G and H.			
	Management revi	•			
	o PQR	CW			
	Deviations and C	APA			
	 Validation Maste 				
	 Quality agreement with EU import sites 				
• Personnel					
	Premises and equipment				
		nanufacturing areas, equipment and utilities			
		ntenance and calibration			
	Water systemsProcess gases				
	Process gasesHVAC systems				
	Environmental monitoring				



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	Documentation				
	 Batch records 				
	• Production				
	o Process validation				
	 Cleaning validation 				
	Quality control				
	o OOS				
	 Outsourced activities 				
	Complaints and product recall				
	Self-inspection				
Out of scope and	All areas, activities and products that are not relevant for EU and WHO products				
restrictions (last					
WHO inspection)					
WHO products	HA323 Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated				
covered by the last	150mg/200mg/300mg				
WHO inspection	HA306 Efavirenz Tablet, Film-coated 600mg				
	HA298 Nevirapine 200mg Tablet				
	HA286 Lamivudine/Zidovudine Tablet, Film-coated 150mg/300mg				
	HA698 Abacavir (sulfate)/Lamivudine 600mg/300mg Film-coated Tablet				
	HA699 Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil				
	fumarate 50mg/300mg/300mg Film-coated Tablet				
Additional products	N/A				
to be covered by this					
desk assessment:					
Abbreviations	Meaning				
BMR	Batch manufacturing record				
BPR	Batch production record				
CAPA	Corrective and preventive action				
CC	Change control				
FPP	Finished pharmaceutical product				
GMP	Good manufacturing practices				
PQR	Product quality review				
SMF	Site master file				
SOP	Standard operating procedure				
SRA	Stringent regulatory authority				

Part 4 Summary of the assessment of supporting documentation

a) List of all regulatory inspections performed in the last 5 years and their outcomes:

a) List of an regulatory inspections performed in the last 5 years and their outcomes.					
Name of Country		Inspection Date	GMP Certificate	Certificate	
Authority			Number	validity	
MoH- Belarus	Belarus	10 -11 Feb-2020	Not Available	Not Available	
PPB-Kenya	Kenya	25 – 27 Nov 2019	PPB/INS/MAA/RPT /190/19	25, Nov, 2022	
DPML	Republic of	04 Oct 2019	3240/MSHP/DGS/D	07 Nov-2024	
(Department of	Ivory Coast		PML		



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Name of	Country	Inspection Date	GMP Certificate	Certificate
Authority			Number	validity
Pharmaceuticals and				
Medicines)				
MOIT-Russia	Russia	15 – 17 Jul 2019	GMP-01248/19/IN	27 Aug-2022
CDSCO -India	India	29 - 30 Aug2018	HFW-H[Drugs] 67/95	20 Aug-2021
MCAZ- Zimbabwe	Zimbabwe	05- 07 Jul 2018	B/279/4/19/2019	06 Jul-2020
GCC (Gulf Corporation Council)	UAE/ Saudi Arabia/ Kuwait/ Bahrain/ Qatar/ Yemen/ Oman	02 – 6 Feb 2018	GRC/498/11	23 May-2023
Therapeutic Goods Administration (TGA)	Australia	22 - 24 Nov 2017	MI-2016-CE-01416- 1	24 May-2021
IGZ +WHO	Netherlands	10 – 12 Oct 2017	NL/H 17/2001788A	12 Oct-2020 Extended Until end of 2021
State service of Ukraine on medicines & drugs control	Ukraine	05 – 8 Jun 2017	027/2018/GMP	08 Jun-2020
TFDA (Tanzania)	Tanzania	24 – 25 May 2017	Not Available	Not Available
ZaZiBoNa	Zambia, Zimbabwe, Botswana, Namibia	07 – 9 Dec 2015	MRA 6/3/1/Vol I (24)	11 Nov-2021

b) Manufacturing authorization granted by national authorities:

Manufacturing authorization issued by Health & Family Welfare Department H.P. Drugs Control Administration HP Office of the Zonal Licensing Authority No MNB/95/2 & MB/95/2 valid till 31 December 2022

c) Site master file:

SMF submitted and reviewed. SMF written according to the WHO TRS No. 961, Annex 14

d) List of all the products and dosage forms manufactured on-site:

Tablet /Capsule (Hard Gelatin /Soft Gelatin Capsules)

Therapeutic Groups:

- Antiretroviral
- Antihypertensive
- Antidepressant
- Anti-ulcerative
- Analgesic +anti-inflammatory
- Anti-rehumatic



- Diuretics
- Anti-inflammatory
- Antiviral
- Antiepileptic
- Antibacterial
- Antihistaminic
- Anti-diabetic
- Anti-psychotic
- Anti-hyperlipoproteinemic
- Calcium Regulator
- Lipid lowering agent
- Anti-hyperlipidemic
- Anti-aids
- Angiotensin II receptor blocker
- Phosphodiesterase (PDE) inhibitors

e) Most recent product quality reviews (PQR)s of the concerned WHO products:

Submitted:

- 1. Lamivudine/Zidovudine Tablet, Film-coated 150mg/300mg Jan 2019 Dec 2019, product code XX
- 2. Lamivudine/Zidovudine Tablet, Film-coated 150mg/300mg Jan 2019 Dec 2019, product code XX-YY
- 3. Lamivudine/Zidovudine Tablet, Film-coated 150mg/300mg Jan 2019 Dec 2019, product code XX

Submitted and reviewed:

- 1. Efavirenz Tablet, Film-coated 600mg Jan 2019 Dec 2019, product code XX:
- 2. Lamivudine/Nevirapine/Zidovudine Tablet, Film-coated 150mg/200mg/300mg Jan 2019 Dec 2019, product code XX:
- 3. Lamivudine/Zidovudine Tablet, Film-coated 150mg/300mg Jan 2018 Dec 2018, product code XX:
- 4. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate 50mg/300mg/300mg Film-coated Tablet Jan 2018 Dec 2018, product codes XX and YY:

Note:

The following products have not been commercially manufactured:

HA551	Emtricitabine/Tenofovir disoproxil fumarate Tablet, Film-coated
	200mg/300mg
HA525	Lamivudine/Tenofovir disoproxil fumarate Tablet, Film-coated 300mg/300mg
HA698	Abacavir (sulfate)/Lamivudine 600mg/300mg Film-coated Tablet
HA708	Dolutegravir (Sodium) Tablet, Film-coated 50mg requalified
HA742	Atazanavir (sulfate)/Ritonavir Tablet, Film-coated 300mg/100mg



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f) Batch manufacturing and packaging records, including the analytical part, for the most recently released batch of relevant products:

Note:

The following products have not been commercially manufactured:

The following products have not been commercially manufactured:				
HA551	Emtricitabine/Tenofovir disoproxil fumarate Tablet, Film-coated			
	200mg/300mg			
HA525	Lamivudine/Tenofovir disoproxil fumarate Tablet, Film-coated 300mg/300mg			
HA698	Abacavir (sulfate)/Lamivudine 600mg/300mg Film-coated Tablet			
HA708	Dolutegravir (Sodium) Tablet, Film-coated 50mg requalified			
HA742	Atazanavir (sulfate)/Ritonavir Tablet, Film-coated 300mg/100mg			

Submitted and reviewed:

- a. Atazanavir blend of Atazanavir and Ritonavir tablets 300mg/100mg, product code XX, batch YY
- b. Ritonavir blend of Atazanavir and Ritonavir tablets 300mg/100mg, product code XX, batch YY
- c. Efavirenz 600mg Tablet, product code XX, batch YY
- d. Lamivudine/Nevirapine/Zidovudine Tablet 150mg/200mg/300mg, product code XX, batch YY
- e. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate 50mg/300mg/300mg Tablet blend, and Tablet product code XX, batch YY
- f. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, batch XX
- g. Lamivudine/Zidovudine Tablet 150mg/300mg, product code XX, batch YY (BMR/BPR) parent batch
- h. Lamivudine/Zidovudine Tablet 150mg/300mg, product code XX, batch YY (BPR)
- i. Lamivudine/Zidovudine Tablet 150mg/300mg, batches XX and YY (analytical raw data)
- j. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate 50mg/300mg/300mg Tablet blend, product code XX, batch YY

g) Master batch manufacturing and packaging records of the products of interest:

Submitted and checked:

Master manufacturing instructions:

- a. Atazanavir blend of Atazanavir and Ritonavir tablets 300mg/100mg, product code XX
- b. Atazanavir blend of Atazanavir and Ritonavir tablets 300mg/100mg, product code YY
- c. Ritonavir blend of Atazanavir and Ritonavir tablets 300mg/100mg, product code XX
- d. Ritonavir blend of Atazanavir and Ritonavir tablets 300mg/100mg, product code YY
- e. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code XX
- f. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code YY
- g. Lamivudine/Zidovudine Tablet 150mg/300mg, product codes XX, YY, VV, AA
- h. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate blend 50mg/300mg/300mg Film-coated Tablet, product code XX
- i. Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate 50mg/300mg/300mg Film-coated Tablet, product code YY
- j. Abacavir (sulfate)/Lamivudine 600mg/300mg Tablet, product code XX
- k. Efavirenz 600mg Tablet, product code XX
- 1. Lamivudine/Nevirapine/Zidovudine Tablet 150mg/200mg/300mg product codes XX, YY
- m. Lamivudine/Tenofovir disoproxil fumarate Tablet 300mg/300mg, product code XX
- n. Emtricitabine/Tenofovir disoproxil fumarate Tablet 200mg/300mg, product code YY
- o. Dolutegravir (Sodium) Tablet 50mg, product code XX

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Master packaging instructions:

- a. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code XX
- b. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code YY
- c. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code VV
- d. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code AA
- e. Atazanavir (sulfate)/Ritonavir Tablet 300mg/100mg, product code BB
- Lamivudine/Zidovudine Tablet 150mg/300mg, product code XX
- Dolutegravir (Sodium)/Lamivudine/Tenofovir Disoproxil fumarate 50mg/300mg/300mg Filmcoated Tablet, product codes XX, YY, VV
- Abacavir (sulfate)/Lamivudine 600mg/300mg Tablet, product codes XX, YY, VV
- Efavirenz 600mg Tablet, product code XX
- j. Lamivudine/Tenofovir disoproxil fumarate Tablet, 300mg/300mg, product codes XX, YY, VV,
- k. Emtricitabine/Tenofovir disoproxil fumarate Tablet 200mg/300mg, product code XX
- Dolutegravir (Sodium) Tablet 50mg, product codes XX, YY, VV, AA

Master manufacturing and packaging instructions submitted, not checked - HA298 Nevirapine 200mg Tablet withdrawn.

h) If any of the products are sterile, the completed batch records for the most recent media fill validation that is relevant to the products of interest and report on its outcome: N/A

Recalls in the past three years related to products with quality defects:

Ref	Product name	Batch number	Market/class	Date of recall
number				
003/17	Cifran 500 mg Tablet	2739568 &	Russia Class-II	28/Feb/2017
		2747898		
004/17	Cifran 500 mg Tablet	2756899	Russia Class-II	21/Mar/2017
RL1-01	Valsartan+HCTZ	Total 116	Germany, France,	23/Jul/2018
	Tablets80+12.5/160+12.5/160+25	batches	Italy & Spain	
	mg		Class-II	
294820	Pregabalin 150 Capsule	AA10305	Germany	08/May/2019
			Class- II	·
312334	Raciper 20 mg tablet	3983744	Vietnam Class-II	31/May/2019
	(ESOMEPRAZOLE MG GR			·
	TAB 20mg)			
377066	ATORVASTATIN ORION TAB	AA32283	Finland Class-II	23/Aug/2019
	20/80 mg	AA20389		
		AA22774		
		AA22765		
		AA25469		
	ESOMEPRAZOL ORION TAB	AA02384		
	20/40mg	AA12234		



- Confirmation by the senior quality assurance representative that a full self-inspection or external audit dedicated to the products has been performed and all matters dealt with: Self-inspection execution details submitted
- k) Copy of any warning letter, or equivalent regulatory action, issued by any authority to which the site provides or has applied to provide the product:

Confirmation submitted: no warning letter, or equivalent regulatory action, issued by any authority

Out-of-stock situations:

Confirmation submitted: no out-of-stock situations

m) Additional documents submitted:

SOP "Annual Product Review (Product Quality Review)

Part 5 Conclusion - Desk assessment outcome

Based on the previous WHO inspections and on the GMP evidence received and reviewed, it is considered that a desk assessment is acceptable in lieu of a WHO onsite inspection. The site Sun Pharmaceutical Industries Limited (blocks A, B, C, D, E, F, G and H), located at Village Ganguwala, Paonta Sahib, District Sirmour, Himachal Pradesh, 173 025 India is considered to be operating at an acceptable level of compliance with WHO GMP guidelines.

This WHOPIR will remain valid for 3 years, provided that the outcome of any inspection conducted during this period is positive.

Part 6 List of guidelines referenced in this inspection report

- 1. WHO good manufacturing practices for pharmaceutical products: main principles. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-eighth Report Geneva, World Health Organization, 2014 (WHO Technical Report Series, No. 986), Annex 2. Short name: WHO TRS No. 986, Annex 2 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_986/en/
- 2. WHO good manufacturing practices for active pharmaceutical ingredients. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fourth Report. Geneva, World Health Organization, 2010 (WHO Technical Report Series, No. 957), Annex 2. Short name: WHO TRS No. 957, Annex 2 http://www.who.int/medicines/publications/44threport/en/
- 3. WHO good manufacturing practices: water for pharmaceutical use. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fourth-sixth Report. Geneva, World Health Organization, 2012 (WHO Technical Report Series, No. 970), Annex 2.

Short name: WHO TRS No. 970, Annex 2

http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_970/en/



4. WHO guidelines for sampling of pharmaceutical products and related materials. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Thirty-ninth Report. Geneva, World Health Organization, 2005 (WHO Technical Report Series, No. 929), Annex 4.

Short name: WHO TRS No. 929, Annex 4

http://whqlibdoc.who.int/trs/WHO TRS 929 eng.pdf?ua=1

 Guidelines on heating, ventilation and air-conditioning systems for non-sterile pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-second Report Geneva, World Health Organization, 2018 (WHO Technical Report Series, No. 1010), Annex 8. Short name: WHO TRS No. 1010, Annex 8

http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_1010/en/

6. Supplementary guidelines on good manufacturing practices: validation. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fortieth Report. Geneva, World Health Organization, 2006 (WHO Technical Report Series, No. 937), Annex 4.

Short name: WHO TRS No. 937, Annex 4

http://whqlibdoc.who.int/trs/WHO TRS 937 eng.pdf?ua=1

7. WHO Good Practices for Pharmaceutical Quality Control Laboratories. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fourth Report. Geneva, World Health Organization, 2010 (WHO Technical Report Series, No. 957, Annex 1.

Short name: WHO TRS No. 957, Annex 1

http://www.who.int/medicines/publications/44threport/en/

8. WHO Good Practices for Pharmaceutical Products Containing Hazardous Substances. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fourth Report. Geneva, World Health Organization, 2010 (WHO Technical Report Series, No. 957), Annex 3.

Short name: WHO TRS No. 957, Annex 3

http://www.who.int/medicines/publications/44threport/en/

9. WHO good manufacturing practices for sterile pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fifth Report Geneva, World Health Organization, 2011 (WHO Technical Report Series, No. 961), Annex 6.

Short name: WHO TRS No. 961, Annex 6

http://whqlibdoc.who.int/trs/WHO TRS 961 eng.pdf?ua=1

10. WHO guidelines on transfer of technology in pharmaceutical manufacturing WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fifth Report Geneva, World Health Organization, 2011 (WHO Technical Report Series, No. 961), Annex 7.

Short name: WHO TRS No. 961, Annex 7

http://whqlibdoc.who.int/trs/WHO TRS 961 eng.pdf?ua=1

11. Model guidance for the storage and transport of time-and temperature-sensitive pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fifth Report Geneva, World Health Organization, 2011 (WHO Technical Report Series, No. 961), Annex 9. Short name: WHO TRS No. 961, Annex 9

http://whqlibdoc.who.int/trs/WHO_TRS_961_eng.pdf?ua=1



12. General guidelines for the establishment maintenance and distribution of chemical reference substances. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-first Report Geneva, World Health Organization 2007 (WHO Technical Report Series, No.943) Annex 3. Short name: WHO TRS No. 943, Annex 3

http://whqlibdoc.who.int/trs/WHO TRS 943 eng.pdf?ua=1

13. WHO good practices for pharmaceutical microbiology laboratories. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fifth Report Geneva, World Health Organization, 2011 (WHO Technical Report Series, No. 961), Annex 2.

Short name: WHO TRS No. 961, Annex 2 http://whqlibdoc.who.int/trs/WHO TRS 961 eng.pdf?ua=1

- 14. WHO guidelines on quality risk management. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-seventh Report Geneva, World Health Organization, 2013 (WHO Technical Report Series, No. 981), Annex 2. Short name: WHO TRS No. 981, Annex 2 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_981/en/
- 15. WHO guidelines on variation to a prequalified product. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-seventh Report Geneva, World Health Organization, 2013 (WHO Technical Report Series, No. 981), Annex 3. Short name: WHO TRS No. 981, Annex 3 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_981/en/
- 16. WHO guidelines for drafting a site master file. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fifth Report Geneva, World Health Organization, 2011 (WHO Technical Report Series, No. 961), Annex 14. Short name: WHO TRS No. 961, Annex 14 http://whqlibdoc.who.int/trs/WHO TRS 961 eng.pdf?ua=1
- 17. WHO Guidelines on good manufacturing practices: validation, Appendix 7: non-sterile process validation. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-ninth Report Geneva, World Health Organization, 2015 (WHO Technical Report Series, No. 992), Annex 3. Short name: WHO TRS No. 992, Annex 3 http://www.who.int/medicines/areas/quality safety/quality assurance/expert committee/WHO TRS 992 we b.pdf
- 18. WHO General guidance on hold-time studies WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-ninth Report Geneva, World Health Organization, 2015 (WHO Technical Report Series, No. 992), Annex 4. Short name: WHO TRS No. 992, Annex 4 http://www.who.int/medicines/areas/quality safety/quality assurance/expert committee/WHO TRS 992 we b.pdf
- 19. WHO Technical supplements to Model Guidance for storage and transport of time and temperature sensitive pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-ninth Report Geneva, World Health Organization, 2015 (WHO Technical Report Series, No. 992), Annex 5. Short name: WHO TRS No. 992, Annex 5 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/WHO_TRS_992_we b.pdf



20. Guidance on good data and record management practices. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fiftieth Report Geneva, World Health Organization, 2016 (WHO Technical Report Series, No. 996), Annex 5.

Short name: WHO GDRMP guidance or WHO TRS No. 996, Annex 5 http://www.who.int/medicines/publications/pharmprep/WHO TRS 996 annex05.pdf

21. WHO general guidance on variations to multisource pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fiftieth Report Geneva, World Health Organization, 2016 (WHO Technical Report Series, No. 996), Annex 10.

Short name: WHO Multisource guidance or WHO TRS No. 996, Annex 10 http://www.who.int/medicines/publications/pharmprep/WHO TRS 996 annex 10.pdf

22. Stability testing of active pharmaceutical ingredients and finished pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-second Report Geneva, World Health Organization, 2018 (WHO Technical Report Series, No. 1010), Annex 10.

Short name: WHO TRS No. 1010, Annex 10

http://www.who.int/medicines/publications/pharmprep/WHO TRS 996 annex10.pdf

23. Production of water for injection by means other than distillation. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-fourth Report. Geneva, World Health Organization, 2020 (WHO Technical Report Series, No. 1025), Annex 3.

Short name: WHO TRS No. 1025, Annex 3

https://www.who.int/publications-detail/978-92-4-000182-4

24. Good chromatography practice. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-fourth Report. Geneva, World Health Organization, 2020 (WHO Technical Report Series, No. 1025), Annex 4.

Short name: WHO TRS No. 1025, Annex 4

https://www.who.int/publications-detail/978-92-4-000182-4

25. Points to consider for manufacturers and inspectors: environmental aspects of manufacturing for the prevention of antimicrobial resistance. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-fourth Report. Geneva, World Health Organization, 2020 (WHO Technical Report Series, No. 1025), Annex 6.

Short name: WHO TRS No. 1025, Annex 6

https://www.who.int/publications-detail/978-92-4-000182-4

26. WHO guidance on good practices for desk assessment of compliance with good manufacturing practices, good laboratory practices and good clinical practices for medical products regulatory decisions. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-second Report. Geneva, World Health Organization, 2018 (WHO Technical Report Series, No. 1010), Annex 9.

Short name: WHO TRS 1010, Annex 9

https://www.who.int/medicines/areas/quality_safety/quality_assurance/TRS1010annex9.pdf?ua=1