DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 12/4/2023-12/15/2023* 12420 Parklawn Drive, Room 2032 Rockville, MD 20857 3004561553 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Reem Malki, Chief Quality Officer Sun Pharmaceutical Industries Limited Survey No. 1012 CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Dadra, Dadra & Nagar Haveli and Daman, Finished Drug Products Manufacturer - OSD 396191 India

This document lists observations made by the FDA representative(s) during the inspection of your facility. They are inspectional observations, and do not represent a final Agency determination regarding your compliance. If you have an objection regarding an observation, or have implemented, or plan to implement, corrective action in response to an observation, you may discuss the objection or action with the FDA representative(s) during the inspection or submit this information to FDA at the address above. If you have any questions, please contact FDA at the phone number and address above.

DURING AN INSPECTION OF YOUR FIRM I OBSERVED:

QUALITY SYSTEM

OBSERVATION 1

FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

There is a failure to thoroughly review any unexplained discrepancy and the failure of a batch or any of its components to meet any of its specifications whether or not the batch has been already distributed.

Specifically, your laboratory investigations pertaining to Out of Specification (OOS) investigations are not thoroughly investigated to determine the root cause(s) for long-term (25°C/60%RH) stability samples failures for the drug products sold into the US market. For example,

A) Your OOS Investigation PR ID #724426 was not thoroughly investigated for Product: (b) (4)

(b) (4)

and (b) (4)

Tablets (mg/b) mg, Batch Number:
(b) (4)

, date of initiation: 26-Oct-2020, Issue: "Dissolution by HPLC test results was found not meeting S1 stage criteria due to a significantly lower result in vessel 1 of dissolution apparatus (ID: GQC/IN.307) the dissolution test will not comply in S2 and S3 stage criteria". Your firm filed an initial Field Alert on 28-Oct-2023 to the FDA for obtaining OOS test result at 18-month stability stage and based on your preliminary investigation. The dissolution test result at S1 stage are as follows:

Dissolution Vessel	1	2	3	4	5	6
(b) (4)	30%	(b) %	(b) %	(b) %	(b) %	(b) %
(b) (4)	18%	(b) 70 (c) %	(b) %	(4) %	(b) %	(b) %

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INSPECTIONAL OBSERVATIONS PAGE 1 of 18 PAGES

	LTH AND HUMAN SERVICES IG ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
12420 Parklawn Drive, Room 2032	12/4/2023-12/15/2023*
Rockville, MD 20857	FEI NUMBER 3004561553
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	*
Reem Malki, Chief Quality Officer	
FIRM NAME	STREET ADDRESS
Sun Pharmaceutical Industries Limited	Survey No. 1012
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Dadra, Dadra & Nagar Haveli and Daman, 396191 India	Finished Drug Products Manufacturer - OSD

Given the value obtained in vessel 1, dissolution will also automatically fail in S2 and S3 stage. The preliminary investigation conducted by your Quality Unit ruled-out the possibilities of analyst error, solution preparation error, dissolution parameter error. The result of reanalysis from the same solution and refilled solution was found comparable to the initial test result for vessel 1 of the failing batch and a marker batch (one of another batch that was analyzed in the same sample set sequence) which confirmed that there was no solution preparation, vial filling and instrument error. Your firm concluded the root cause (detached dissolution basket in vessel 1) based on the two (2) QC Analysts interviews of the events, but these same employees also admitted in the interview that the Dissolution Parameter Checklist (4 pages document) was simply filled-out without verifying the actual dissolution parameters while the testing was conducted and the document was signed and dated under Performed by (by QC Analyst - (b) and Reviewed by (QC Senior Analyst - (b) sections. I observed the following issues:

- 1. Your Quality Unit restricted the evaluation of two (2) QC Analyst's (initialed (b) and (b) practices of falsifying the Dissolution Parameter Checklist to the failing Batch Number: (b) (4) only and did not extend the investigation to the other three (3) stability batches (IDs: (AR Number: STB/C/20/1570), and (b) (4) (AR Numbers: STB/C/20/1556) and STB/C/20/1555)) at 9-month long term and intermediate conditions) that were also analyzed by these two (2) QC Analysts on the same day (24-Oct-2020) in the (b) (4) since the results of the three (3) batches met the specification limit. Further, your Quality Unit failed to investigate the impact of these two (2) QC Analyst's practices on the integrity of data of previously analyzed materials and drug products.
- 2. Your Quality Unit provided no scientific justification supported with documented evidence for the QC Analyst's failure to report a missing basket on the shaft of vessel 1 upon completion of dissolution and when the basket shafts were lifted upward for cleaning purposes.
- 3. According to your QC Head, a QC Junior Technician conducts equipment cleaning, however no training was provided to these Technicians to report unusual observation while taking the

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NAME AND TITLE OF INDIVIDUA	LTOWHOM REPORT ISSUED Chief Quality Officer			
FIRM NAME	chief Quality Officer	STREET ADDRESS		
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Dadra, Dadra 396191 India	& Nagar Haveli and Daman,	TYPE ESTABLISHMEN Finished	лиярестей Drug Products Manu	facturer - OSD
dropping remained both the bask studies. S1 stage (b) (4) Batch Number:	othesis study conducted by your g from the shaft in vessel 1 (result d inconclusive considering the reactives. Your firm closed the OC set fell off from the shaft without The repeat analysis conducted by based on which the investigation and (b) (4) was manufactured on the presented total (b) (excluding (b)	ting in 30% for sult obtained DS investigation out scientificathe second are was closed.	for this activity was lesson and FAR based on ally demonstrating it the halyst gave a passing d	8% for (b) (4)) ess than (b) % for the likelihood that hrough hypothesis issolution result at
investigated. Fo OOS Investiga	nvestigations pertaining to Related rexample, tion PR ID: 1502090, Date of and (b) (4)		09-Jun-2023, Produc	et: (b) (4)
(b) (4) , St about (b) (RT	and (a) (a) (a) (a) (b) (4) (b) (4) (b) (4) (b) (4) (b) (4) (b) (4) (c) (d) (d) (d) (d) (e) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Ferm stability %. Limit: (b) (4) was categorize), Issue: Any unknown % for Relates substa	mg, Batch No.: impurity at RRT ance by HPLC test
root cause was firm concluded	nit did not find any obvious error identified at Phase 1a and 1b inve the investigation based on probab oper rinsing of volumetric flask	estigations alo	ng with the Phase 2 in of sample solution prep	vestigations. Your paration error with
SEE REVERSE OF THIS PAGE	EMPLOYEE(S) SIGNATURE Pratik S Upadhyay, Investi	gator	Prails S Upodryay Investigator Fra Is 6. Upodryay Date Signer: 12-15-2023 X	DATE ISSUED 12/15/2023
FORM FD 4 483 (09/08)	DECUME EDITION OBSALETE	NSPECTIONAL O	RSERVATIONS	PAGE 3 of 18 PAGES

FORM FDA 483 (09/08)

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NAME AND TITLE OF INDIVIDU					
Reem Malki, (Chief Quality Officer	STREET ADDRESS			
Sun Pharmaceu	utical Industries Limited	Survey No	. 1012		
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Dadra, Dadra 396191 India	& Nagar Haveli and Daman,	Finished	Drug Pr	oducts Manufa	cturer - OSD
As such the unstability timepor 12-month time unknown peak that were analy (b) (4)	an unknown peak at RRT about (rinsing of glassware by looking into a laboratory where the OOS batch by to identify the source of unknown known impurity at RRT about (b) (a) int (13-Jan-2023) in the subject bat point was not from dirty glasswar was also present in the other two (2) (2) (2) (3) (4) (5) (6) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	was presentch (b) (4) are and instead puence along r suggesting	e solution at at BLQ b, where the second is the second in the second i	around the same a was prepared by a level at the 9-m nich suggests the ed to product de ong term stability the subject OOS	nonth long term impurity at the egradation. This y) at BLQ level batch number
	D EQUIPMENT SYSTEM				
The state of the s	ON 2 utensils are not cleaned and mainta the safety, identity, strength, qualit	Contract to the second second second		A STATE OF THE PROPERTY OF THE	t contamination
Cassifically					
Specifically,					
covered in sectifilter and the accumulation of 2023 due to lead gets verified for	of Processing Are f stagnant liquid may have occurre kage of water from the (b) (4) loca	e the Air Pur a (b) (4) ed after the lated inside (b) preventative	ID: GPN last preve) (4) maintena	Unit (APU) in be //EQ/285. Your entative maintena close to the nce. There is a p	firm stated the ance of 13-Oct- APU. This area potential for the
SEE REVERSE OF THIS PAGE	EMPLOYEE(S)SIGNATURE Pratik S Upadhyay, Investig	ator		Profit 6 Upadhydy prectigator Signed By Pre 8 6. Upadhyay -6 Diges 10 -15 -6023 X	DATE ISSUED 12/15/2023
FORM FDA 483 (09/08)	DEFINITION OBSOLETE IN	SPECTIONAL O	RSFRVATIO	ONS	PAGE 4 of 18 PAGES

FORM FDA 483 (09/08)

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CITY, STATE, ZIP CODE, COUN Dadra, Dadra 396191 India	MRY Nagar Haveli and Daman,	Finished		coducts Manufac	turer - OSD
is use for (b) (4)	and at around (b) °C while not in us	se.			
velocity (b) r microorganisms	r from the (b) μ filter flows throu (b) (4))) into the (b) (4) s, yeast and mold growth in this stage of the material under (b) (4) in (b) (4)	Unit gnant liquid	and the that coul	(b) (4). There is	a potential for
Per my request on 04-Dec-2023, your firm collected a sample of this stagnant liquid for microbial and chemical analyses. The microbial analyses revealed TNTC (Too Numerous To Count) microbial, yeast and mold colonies. There is a potential for microorganisms, yeast and mold grown in this stagnant liquid to get carried with the high velocity air through the (b) (4) in to the (b) (4) ID: GPN/EQ/285 and potentially contaminate the product while it is used for manufacturing drug products.					
The chemical analyses by LC-MS showed the presence of (b) (4) API along with numerous large areas of peaks pertaining to (b) (4) and (b) (4) impurities. There have been about (b) (4) different drug products manufactured since the manufacturing of product containing (b) (4) API (last manufactured on 16-Sep-2023) using (b) (4) ID: GPN/EQ/285.					
Based on these observed chemical and microbial test results, there is a potential for contamination of drug products that are manufactured using this non-dedicated (b) (4) ID: GPN/EQ/285 for the US market.					
B. On 04-Dec-2023, I observed a hole and rough around the (b) (4) located inside the body of (b) (4) ID: GPN/EQ/285. I also observed light yellowish color sealant that was used to cover gaps surrounding the was missing sealant and small pieces of (b) (4) on the hole. There is a potential for these missing pieces may have mixed into the products manufactured using this non-dedicated (b) (4). Further, there is a potential for the deposition of powdery materials to get accumulated					
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FORM FDA 483 (09/08)

	LTH AND HUMAN SERVICES UG ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
12420 Parklawn Drive, Room 2032	12/4/2023-12/15/2023*
Rockville, MD 20857	FEINUMBER 3004561553
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	1.
Reem Malki, Chief Quality Officer	
FIRM NAME	STREET ADDRESS
Sun Pharmaceutical Industries Limited	Survey No. 1012
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Dadra, Dadra & Nagar Haveli and Daman, 396191 India	Finished Drug Products Manufacturer - OSD

inside the holes and rough surfaces which may not get removed during the manual Type B (product changeover) cleaning of this equipment. According to your procedure (SOP No.: SOP009109, Version No.: 10.0), there is no swab sample collected and tested for chemical and microbial testing from these areas of (b) (4) ID: GPN/EQ/285.

QUALITY UNIT

OBSERVATION 3

The responsibilities and procedures applicable to the quality control unit are not in writing and fully followed.

Specifically,

- A) There is a lack of Quality Unit oversight on the issuance, handling, retrieval and reconciliation of GMP documents that are used in the manufacturing of drug products at your site. This lack of oversight violates the firm's QA SOP 018075 for GMP form issuance. For example,
- 1) Controlled documents related to the following departments can be printed from the Electronic Document Management System (EDMS) without any oversight of the Quality Unit. These documents are used to record original GMP information. For example, but not limited to:
- QC forms such as Form 060789: Request Form for Re-processing, Form: 039593: Dissolution analysis checklist, Form: 011918: Auto sampler validation record for model EDT-08LX, Form: 034262: HPLC Chromatogram Checklist, Form 011907: U.V. Vis Spectrophotometer graph checklist

Production forms such as Form 011406: Equipment Cleaning Record of (b) (4) Compression Machine, Form 040690: Equipment Cleaning Record of (b) (4)

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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATI	ONS	PAGE 6 of 18 PAGES

	LTH AND HUMAN SERVICES UG ADMINISTRATION
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION
12420 Parklawn Drive, Room 2032	12/4/2023-12/15/2023*
Rockville, MD 20857	FEI NUMBER 3004561553
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Reem Malki, Chief Quality Officer	
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Sun Pharmaceutical Industries Limited	Survey No. 1012
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED
Dadra, Dadra & Nagar Haveli and Daman, Finished Drug Products Manufactus 396191 India	

Form 011459: Cleaning and Operation of (b) (4) and (b) (4) compression machine, Form 042113: Line Clearance checklist for Product to Product Changeover

RM warehouse forms such as Form 012373: Performance check of Barcode scanner/RF Gun, Form 012468: Cleaning Record of Cold Storage Cabinet, Form 012472: Cleaning Record of (b) (4) booth

Packaging forms such as Form 011450: Challenge Test for Tablets Inspection machine, Form 041188: Equipment Cleaning Record Tablet Inspection Machine (Product to Product)

The Head of Quality Unit of your firm stated that there is no controlled copy issuance log maintained by the firm for the issuance and retrieval of GMP documents. In addition, the Quality Unit has given an access to employees across the site to all documents on EDMS, which allows employees of other departments to print controlled documents unrelated to their respective department.

2) During the inspection, I observed the Quality Unit of your firm allowed destruction of original GMP documents such as balance weight printouts, controlled forms/formats. For example,

On 04-Dec-2023, I observed a balance printout pertaining to Balance ID: GPN/IN/545, Dated/Timed: 01-Dec-2023 (b) (4), Weight: 8.007 g that was disposed inside your firm's main scrapyard. The Production Technician that disposed this printout stated the practice of disposing the balance printout is normal by all employees in his department in the event of printing and weighing errors.

The firm only began recording the justification and type of document that was placed into the disposal bins less than one month ago on 06-Nov-2023. However, reconciliation of the documents disposed of on 11-Nov-2023 as noted in the logbook revealed the number of pages disposed inside the bin were less than the total number of pages of the controlled forms. For example, the entry made in the logbook dated 11-Nov-2023 for the disposal of Cleaning Checklist - Form 037989TP-59 and Form 037989TP-60 were

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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 7 of 18 PAGE.

	LTH AND HUMAN SERVICES IG ADMINISTRATION	
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12420 Parklawn Drive, Room 2032	12/4/2023-12/15/2023*	
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Dadra, Dadra & Nagar Haveli and Daman, 396191 India	Finished Drug Products Manufacturer - OSD	

two separate entries pertaining to nine (9) pages forms. However, the number of pages received for disposal were eight (8) for Form 037989TP-59 and two (2) for Form 037989TP-60. Your Quality Unit provided no justification for the missing one (1) page for Form 037989TP-59 and six (6) pages for Form 037989TP-60. The total of eight (8) pages remained missing for which your firm conducted no investigation to ensure the missing pages does not get misused in the lack of Quality Unit's oversight on the issuance, retrieval, and reconciliation of GMP documents.

B) Your QC Microbiology laboratory has no equipment usage logbook or any other document that records incubator usage details for a total (b) (4) incubators across various temperature ranges that are used to incubate microbial and environment monitoring plates. The lack of an issued logbook violates your SOP No.: SOP008866, Titled: "Issuance, Handling and Retrieval of Logbook/Bounded Book", Version No.: 8.0, Section: 5.0 and SOP No.: SOP009405, Titled: "Instrument usage log", Version No.: 3.0, Section: 5.0.

As a result of no equipment usage logbook or documentation for the incubators, there is no assurance over its usage, breakdown (if any) and whether calibrations were performed on time. Per the above referenced procedures, the Quality Unit of the firm is required to verify logbook entries (b) (4) for usage and accuracy of data entered. However, given the lack of logbooks this verification is not happening and there was no justification provided by your Microbiology management about not conducting these activities.

OBSERVATION 4

Procedures describing the handling of written and oral complaints related to drug products are deficiently written or followed.

Specifically, your Quality Unit has failed to investigate Product Quality Complaints (PQCs) thoroughly. For example,

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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATION	ONS	PAGE 8 of 18 PAGES

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Dadra, Dadra 396191 India	& Nagar Haveli a	nd Daman,	Finished Drug Pr	oducts Manufac	cturer - OSD
A Vour firm re	estricted PQC's trend	evaluation for	a period of (b) (4)	only while	e you marketed
drug products i	nto the US with a sl	elf life of over	(b) (4) for w	hich you receive	The state of the s
complaints post		For example,		,	3
	Co	ount variability n	narket complaints:		
Product Name	Batch No.	Date PQC rece	ived PQCs in (b) (4)	PQCs in (b) (4)	
(b) (4)	W. V. Z. W.				_
Tablets, mg	(b) (4)	01/02/2023	b	b	
Tablets, mg (b) (4)	(b) (4)	14/12/2022	(b) (4)	(b) (4)	
Tablets, (b) mg	(b) (4)	21/07/2022	(b) (4)	(b) (4)	
According to y	your procedure SOI	008928, Titled	: "Product Quality	Complaint han	dling process",
Version: 7.0, Se	ection 5.12.10 your	firm restricted e			
Complaints (PC	(Cs) only for a perio	d of (b) (4)	to identify the rep		complaint while (b) (4)
(b) (4)	ets are marketed in t	ne US with the	. As a result of limi		
PQCs, your firm	n's complaint investi	gations are inco			
	nd to take appropriat				
batch(es).					
R Vour firm	has not thoroughly	investigated of	ount variability m	arkat complaints	for (b) (4)
(b) (4)	Tablets (b) mg, and (b)	(4) di	ug products. On 11		
received mainly	between 7 to 22 c	omplaints each	month since year	2019 to 01-Dec-	2023 for count
	plaints. The evaluati				
2021 to 01-De	c-2023revealed that	the complaints	were closed base	ed on the similar	ir investigation
	ř				T
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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLE	INSP	ECTIONAL OBSERVATION	ONS	PAGE 9 of 18 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 12/4/2023-12/15/2023* 12420 Parklawn Drive, Room 2032 Rockville, MD 20857 3004561553 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Reem Malki, Chief Quality Officer FIRM NAME Sun Pharmaceutical Industries Limited Survey No. 1012 CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Dadra, Dadra & Nagar Haveli and Daman, Finished Drug Products Manufacturer - OSD 396191 India

summary, root cause and CAPAs repetitively simply by rewriting these sections or copy and pasting upon changing the batch information. Your firm took no meaningful efforts to determine the root cause and establish CAPAs to overcome the count variability PQCs.

C. The firm does not provide procedures or guidance to the contracted third-party PQC call center that receives incoming product quality complaints so product specific questions can be asked to the complainants during follow-up attempts to get a meaningful information that would be significant to determine the root cause.

OBSERVATION 5

An (b) (4) -Field Alert Report was not submitted within three working days of receipt of information concerning significant chemical, physical, or other change or deterioration in a distributed drug product.

Specifically,

Your firm failed to submit a Field Alert for Product Quality Complaints (PQCs). For example,

A. In the period of January 2019 to 01-Dec-2023, your firm received 468 complaints out of 1355 complaints relating to count variability (short and excess count) issues globally of which around 457 complaints out of 1209 complaints were reported from the US market. The details are as follows:

Year	Total Complaint Received	No. of Short/Excess count Complaint Received	% of Complaint received (Short/Excess)	
2019	269	42	15.61	
2020	282	119	42.20	
2021	230	77	33.48	
2022	225	106	47.11	
Till 01st Dec 2023	203	113	55.67	

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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATION	ONS	PAGE 10 of 18 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION DISTRICT ADDRESS AND PHONE NUMBER 12420 Parklawn Drive, Room 2032 12/4/2023-12/15/2023* FEI NUMBER Rockville, MD 20857 3004561553 NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED Reem Malki, Chief Quality Officer Sun Pharmaceutical Industries Limited Survey No. 1012 CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED Dadra, Dadra & Nagar Haveli and Daman, Finished Drug Products Manufacturer - OSD 396191 India

Total 1209 457 37.80

Total 407 complaints out of 457 complaints i.e. about 89% complaints were received for (b) (4) Tablets (b) mg, and (b) (4) drug products as follows:

S.no.	Product	2019	2020	2021	2022	Dec-23	Total	% Complaint in 05 years
1	(b) (4) [Tablets, (b) Mg	33	79	53	67	33	265	57.99
2	(b) (4) mg (b) (4) Tablets	1	11	4	15	15	46	10.07
3	(b) (4) and (b) (4) Tablets (+ (n	4	4	11	8	18	43	9.41
4	(b) (4) and (b) (4) Tablets (b) + (b) (4) mg"	0	11	2	4	11	28	6.13
5	(b) (4) Mg (b) (4) Tablets	1	4	2	2	16	25	5.47

Out of 407 complaints about 219 complaints are repeated count variability complaints that were reported for about 73 batches. Your firm categorized these complaints as "Minor" without conducting any Health Hazard Evaluation (HHE). About 95% of these complaints were substantiated (confirmed/valid) upon investigation and some through verification of controlled samples by your Quality Unit. However, there was no Field Alert filed by your firm to the agency. This is in deviation of your SOP No.: SOP008879, Titled: "Field Alert Report (FAR) Management and Process", Version: 3.0, Effective date: 29-Dec-2020. Per Sections 5.1.7 of this procedure "Any failure of (5) or more distributed batches of the drug

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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATION	ONS	PAGE 11 of 18 PAGES

	DEPARTMENT OF HEAD FOOD AND DRU	TH AND HUMA G ADMINISTRAT		ES		
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	n Drive, Room 2032		12/4/2023-12/15/2023* FEI NUMBER			
Rockville, MI	D 20057		3004561553			
NAME AND TITLE OF INDIVIDUA	AL TO WHOM REPORT ISSUED					
Reem Malki, (Chief Quality Officer	STREET ADDRESS				
Sun Pharmaceu	tical Industries Limited	Survey N				
CITY, STATE, ZIP CODE, COUN Dadra, Dadra 396191 India	& Nagar Haveli and Daman,	Finished		roducts Manuf	acturer - OSD	
5.1.7.5 "Investi retention sample	the specification established in the gation of a product quality compe" requires filing a Field Alert.	laint indicat	tes that th	ne defect is sub	stantiated in the	
complaints are complaints for complaints for 1 along with 3 con	Further, your firm received several complaints related to short count of tablets of which as many as 22 complaints are for 2 tablets short, 5 complaints for 3 tablets short, 3 complaints for 4 tablets short, 4 complaints for 6 tablets short, 2 complaints for 7 tablets short, 2 complaints for 10 tablets short, 2 complaints for 13 tablets short and 1 complaints each for 27, 35, 42, 46, 49, 53, 56, 66, 69, tablets short along with 3 complaints for <100 and 2 complaints for >100 tablets for (b) (4) Tablets (b) mg. Your firm substantiated one (1) and two (2) count variability (short and high count) complaints only.					
	oservation of repeated substantiated SOP No.: SOP008879, on 11-Decaining to (b) (4) , and (b) (4)		firm filed	six (6) individu	일시간 양양하는 경기 영향이 되었다 이 사고 있다고 있다.	
B. As a result of receiving repeated count variability Product Quality Complaints (PQCs) for (b) (4) Tablets (b) mg, and (b) (4) drug products, your firm initiated five (5) Corrective Action and Preventative Actions (CAPAs) and two (2) Change Controls (CCs) since July 2018. In the three (3) out of five (5) CAPAs, the objective was related to powder/dust generation followed by broken tablets, half tablets and crumpled tablets related issues. There was not mention of CAPAs being taken for count variability issues. However, your firm kept on referring to these three (3) CAPAs being taken to resolve the count variability issues.						
CAPA PR ID: 89147, CAPA initiation date: 25-Jul-2018, CAPA closure date: 18-May-2019 CAPA PR ID: 723955, CAPA initiation date: 24-Oct-2020, CAPA closure date: 29-Dec-2020						
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FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 12 of 18 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION				
12420 Parklawn Drive, Room 2032	12/4/2023-12/15/2023*				
Rockville, MD 20857	FEI NUMBER 3004561553				
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	•				
Reem Malki, Chief Quality Officer					
FIRM NAME	STREET ADDRESS				
Sun Pharmaceutical Industries Limited	Survey No. 1012				
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED				
Dadra, Dadra & Nagar Haveli and Daman, 396191 India	Finished Drug Products Manufacturer - OSD				

CAPA PR ID: 513656, CAPA initiation date: 08-Feb-2020, CAPA closure date: 27-Aug-2021

Moreover, the CAPA effectiveness check was pertaining to the issues of broken tablets, half tablets and crumpled tablets issues and there was no reference of these CAPA's applicability to count variability (short/high tablets) complaints. Further, the CAPAs effectiveness check was limited to very few batches of the drug products for which there was not even a meaningful historical trend of count variability complaints. Your firm provided no justification for restricting these complaints to a limited number of batches and conducting the CAPA effectiveness check on irrelevant drug products.

- C. Your firm Product Quality Complaints (PQCs) pertaining to lack of efficacy and ADE are not thoroughly investigated to determine the root cause and no adequate CAPA was taken. For example,
- 1. Your firm received 166 complaints pertaining to lack of efficacy in the period of January 2019 to 01-Dec-2023 for the US market. Your Quality Unit did not have an adequate oversight on the functioning of your third-party service group that received complaints to determine if the adequate number of attempts were made to complainant requesting a batch information, physical sample of complaint product and pictures. As a result of this for about 111 (67%) out of 166 lack of efficacy complaints, the batch number remained unknown. Your firm non-substantiated all 111 (67%) of complaints based on the sole justification of unknown batch number. Your PQC investigation was not thorough to include the following, but not limited to:
 - a. Controlled samples evaluation
 - **b.** Impact on the quality of product due to subsequent process validations
 - c. Historical trend of the product behavior over the period of shelf life from the date of receiving the market complaint considering the unknown batch number
 - d. Historical trend of similar nature of complaints
 - e. Evaluation of quality events in the laboratory and in product both substantiated and non-

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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATI	ONS	PAGE 13 of 18 PAGES

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	& Nagar Haveli and Daman,	Finished	l Drug Pr	oducts Manufac	turer - OSD
substant	iated				
X	5 4 4 1		(b) (4)	1 6 4 1	
	ricted complaint investigation to a	period of	C	only from the dat	te of receiving
complaint and i	not the entire shelf life a product.				
2 Vois fam d	id not thoroughly investigate the P	OCa valata	d to leaf	of officery com-	laint when the
	including batch number was provide			-	namit when the
	ived multiple PQC related to lack				JSA (^{(b) (4)} #
	s validation batches from the US ma		101	Tablets C	7521
	yantaanon outeness nom me os me	ariot.			
(b) (4) Ta	ablets mg USA, Batch Number: (b)	(4) T	otal compl	aints: 10	
Ta	ablets (b) mg USA, Batch Number: (1	b) (4)	Total comp		
Ta	ablets (b) mg USA, Batch Number: (1)	0) (4)	Total complaints: 11		
Ta	ablets (6) mg USA, Batch Number: (1	b) (4)	Total comp		
, N	(4)		Y -9		
In each of these	e PQCs, your firm simply relied up	on stability	study tim	epoint data while	e the repetitive
complaints were	e being filed and conducted no contr	rolled samp	oles physic	al evaluation and	testing for any
	ted batches. Your firm did not cond	luct Health	Hazard E	valuation (HHE)	and there were
no Field Alerts	filed to the agency.				
				(F) (A)	
	luded the above PQCs pertaining				Tablets
	ting the similar information in the s				
	tices of simply rewriting the investi				nvestigation as
the repetitive Po	QCs were being reported to the firm	for the lac	k of efficac	ey.	
	(b)(4)			(b) (A)	
3. PQC PR (b) (4)	ID: 1533634, Product: (b) (4)			and (b) (4)	(b) (4)
(6) (4)	Tablets mg/mg, Date of	initiation:	12-Jul-20	23, Date closed:	,
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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE INS	PECTIONAL (OBSERVATIO	NS	PAGE 14 of 18 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION				
DISTRICT ADDRESS AND PHONE NUMBER	DATE(S) OF INSPECTION			
12420 Parklawn Drive, Room 2032	12/4/2023-12/15/2023*			
Rockville, MD 20857	3004561553			
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED				
Reem Malki, Chief Quality Officer				
FIRM NAME	STREET ADDRESS			
Sun Pharmaceutical Industries Limited	Survey No. 1012			
CITY, STATE, ZIP CODE, COUNTRY TYPE ESTABLISHMENT INSPECTED				
Dadra, Dadra & Nagar Haveli and Daman, 396191 India	Finished Drug Products Manufacturer - OSD			
Nature of complaint: Lack of efficacy, Batch Number: Unknown, Description of complaint: "These tablets do NOT contain even a fraction of the mg stated!", Complaint classification: Non-substantiated.				
The investigation simply referred to the evaluation of finished product analytical trend, stability trend and Annual Product Review (APR) (Period: 05th Aug 2020 to 04th Aug 2021 and 05th Aug 2021 to 04th Aug 2022). However, there was no mention of the total number of batches manufactured verses quality events for both valid and invalid trend. Your firm restricted evaluation of historical trend of PQC to (b) (4) only while this product is marketed in the US with (b) (4) shelf life.				
During the inspection, I observed your firm did not evaluate (b) (4) complaint log between July 2022 to (b) (4) . During this period, your firm received three (3) complaints PR#1260415, PR# 1435243 & PR# 1441694 relating to lack of efficacy. However, there was no mention of these complaint logs and its correlation to the repetitive lack of efficacy complaints received by your firm.				

Your firm has limited the control samples evaluation to a limited number of batches on an (b) (4) basis for all drug products manufactured by your site. There was no evaluation of controlled samples data performed by your firm in the event of complaint investigations.

4. PQC PR ID: 1519034, Product: (b) (4) and (b) (4)

Tablets (angletic mg) mg, Date of initiation: 27-Jun-2023, Date closed: (b) (4)

Nature of complaint: Lack of efficacy, Batch Number: Unknown, Description of complaint: The complainant has to take 2 pills of the Sun brand and only one of the other manufacturer, Complaint classification: Non-substantiated.

Additionally, the investigation simply referred to the evaluation of finished product analytical trend, stability trend and Annual Product Review (APR) (Period: 05th Aug 2020 to 04th Aug 2021 and 05th Aug 2021 to 04th Aug 2022). However, there was no mention of the total number of batches

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FORM FDA 483 (09/08)	PREVIOUS EDITION OBSOLETE	INSPECTIONAL OBSERVATION	ONS	PAGE 15 of 18 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
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Rockville, MD 20857	TEL NUMBER 3004561553		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED			
Reem Malki, Chief Quality Officer			
FIRM NAME	STREET ADDRESS		
Sun Pharmaceutical Industries Limited	Survey No. 1012		
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED		
Dadra, Dadra & Nagar Haveli and Daman, 396191 India	Finished Drug Products Manufacturer - OSD		
TAX / A	and invalid trend. Your firm restricted evaluation of		

manufactured verses quality events for both valid and invalid trend. Your firm restricted evaluation of historical trend of PQC to only while this product is marketed in the US with a shelf life.

Your firm has limited the control samples evaluation to a limited number of batches on an basis for all drug products manufactured by your site. There was no evaluation of controlled samples data performed by your firm in the event of lack of efficacy related PQC investigations.

OBSERVATION 6

Reserve samples from representative sample lots or batches of drug products selected by acceptable statistical procedures are not examined visually at least once a year for evidence of deterioration.

Specifically,

A) Each lot of Controlled/Reserve (Retain) samples of drug products is not examined at least once a year for the evidence of deterioration and physical defects. Your firm's rationale based on (b) (4) for the selection of limited number of batches is not justifiable while there are significant gaps identified in your firm's Quality and Production Systems along with several repeated product quality complaints pertaining to count variability, broken, half tablets, and lack of efficacy.

As per your procedure SOP018076, Titled: "Sampling, Storage, Observation and Destruction of Finished Products Control Samples", Version: 13.0, Section: 5.4.1 "For each product, (b) (4) batch out of total commercial batches packed during calendar year shall be selected for visual inspection (All pack style & counts)". (b) (4) batches selection per section 5.4.4 for visual inspection is defined in table-1. For example, but not limited to:

No. of batches of a product packed No. of batches of a product

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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 16 of 18 PAGES

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION			
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12420 Parklawn Drive, Room 2032	12/4/2023-12/15/2023*		
Rockville, MD 20857	TEI NUMBER 3004561553		
NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED			
Reem Malki, Chief Quality Officer			
FIRM NAME	STREET ADDRESS		
Sun Pharmaceutical Industries Limited	Survey No. 1012		
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED		
Dadra, Dadra & Nagar Haveli and Daman, 396191 India	Finished Drug Products Manufacturer - OSD		
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during a calendar year	to be inspected
Up to Batches	(b) (4)
(b) to (b)	h _
(b) to (b)	(b) .(A)
(b) to (b) (4)	(D) (A)
(A) to (A) (B) (C) (C) (A) (C) (A) (C) (C) (A) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	(b) (4)
(b) to (b) (d)	(4)

In the firm's current practices, the limited number of batches selected for the annual verification are the only ones that are verified throughout the products shelf life.

This reduced examination based on selection of few batches would be ineffective in identifying the issues pertaining to physical defects along with empty bottles and count variabilities until defected drug products reach to the customers and gets reported through product quality complaints as it has been observed during many product quality complaints.

B) Your firm's Controlled/Reserve (Retain) samples examination is deficient.

Specifically, there is no provision provided in your Controlled samples logbook to record discrepancy or observations pertaining to physical and count variability issues during annual verification. Your QA Officer (3 years in the current position) and QA Manager (10 years in current position) reported annual verification as "Ok" during each of the annual verification of controlled samples since their joining. These employees stated that they have not observed any discrepancy for any of the product's description and count (short/high) in their entire employment with the firm. Whereas your PQC Investigation Manager has observed count variabilities in controlled samples while investigating complaint investigations.

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FORM FDA 483 (09/08) PREVIOUS EDITION OBSOLETE INSPECTIONAL OBSERVATIONS PAGE 17 of 18 PAGE

DEPARTMENT OF HEALTH AND HUMAN SERVICES FOOD AND DRUG ADMINISTRATION					
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FIRM NAME	Chief Quality Officer	STREET ADDRESS			
Sun Pharmace	utical Industries Limited	Survey N	o. 1012	.2	
CITY, STATE, ZIP CODE, COUN	TRY	TYPE ESTABLISHM	ENT INSPECTED		
Dadra, Dadra 396191 India	& Nagar Haveli and Daman,	Finished	Drug Products	Manufacturer - OSI	
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FORM FDA 483 (09/08)

PREVIOUS EDITION OBSOLETE

PAGE 18 of 18 PAGES