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Prequalification Team Inspection services WHO PUBLIC INSPECTION REPORT (WHOPIR)

Desk Assessment of Active Pharmaceutical Ingredient (API) Manufacturer

Company inform	nation
Name of	
I tallie 01	SHOUGUANG FUKANG PHARMACEUTICAL CO., LTD
Manufacturer	
address of	Registered address: NO.666 of Donghuan Road, Shouguang City, Shandong Province, P.R. of China-Manufacturing address: North East of Dongwaihuan road, Dongcheng Industrial area, Shouguang city, Shandong Province, P.R. of China.
Inspected site	
	SHOUGUANG FUKANG PHARMACEUTICAL CO., LTD North East of Dongwaihuan road, Dongcheng Industrial area, Shouguang city, Shandong Province, P.R. of China.
Synthetic	Workshop 101 – B # W19 & W32
Unit/Block/	Workshop 101 – B # W47
Workshop	Workshop 102 – B # E01, E03, E04, E05, E06, E07
Desk assessment	t details
Date of review	31/7/2019 - 21/10/2019
	-Sulfamethoxazole (with reference made to R0-CEP-2007-332-Rev00)- PQT No.[HA598]
assessment	-Trimethoprim (with reference made to R1-CEP-2005-115-Rev00)- PQT
	No.[HA598] -Sulfamethoxazole (with reference made to R0-CEP-2007-332-Rev00)- PQT No.[HA599]
	- Trimethoprim (with reference made to R1-CEP-2005-115-Rev00)- PQT No.[HA599]
	- Trimethoprim (with reference made to R1-CEP-2005-115-Rev00)- PQT No.[HA686]
	- Trimethoprim (with reference made to R1-CEP-2005-115-Rev00 R1-CEP 2005-115-Rev 01)- PQT No.[HA687]
List of	- Updated SMF
documents	- List of products [not including intermediates, FP]
submitted	- APQR Trimethoprim [2018]
	- APQR Sulfamethoxazole [2018] Blank Batah machatian maganda fan Sulfamethowazola main machatian
	- Blank Batch production records for Sulfamethoxazole main production steps [Dimethyl oxalate synthesis, Amide synthesis, Amino synthesis,

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	 including oil phase, conc neutralization-crystalliza Complete Batch producti 	records for Trimethoprim main production steps densation compound, crude product, purification, ation-filtration & drying, packaging & labeling. fon record for TMP (Chinese) fon record for SMZ (Chinese) e last 3 years inspections	
Part 2	Summary of SRA/NRA inspection evidence considered (from most recent to last)		
	Dates of inspection:	21-25/5/2018	
US FDA	Type of inspection:	Routine GMP inspection	
	Block/Unit/Workshop:	Workshop 111, B # W23, W22 B#W44, Quarantine & sampling area. B#W43, Warehouse # 12 B# W12, Warehouse # 28	
	Type of APIs covered:	Omeprazole, Esomeprazole Magnesium Dihydrate and Trihydrate, Metformin HCL (Metformin), Trimethoprim (TMP), Sulfamethoxazole (SMZ), Pantoprazole Sodium, Omeprazole Magnesium & Clozapine.	
ANSM	Dates of inspection:	17-19/1/2018	
[French National Agency of Medicine &	Type of inspection:	Full inspection as part of ANSM program for inspection of starting materials manufacturers in third countries.	
Health products Safety]	Block/Unit/Workshop:	 -TMP: Workshop 101, B# W19 & W32 [for crude] and W47 [for purification]. -Phloroglucinol Anhydrous & Dihydrate: Workshop 113, B# W31. -Storage facilities: B#W43 for Solid Raw material. B#W44 for liquid materials in drum. B#47 for finished products Part of W41 for rejected material storage. Liquid farm tank area. 	
	Type of APIs covered:	Phloroglucinol Anhydrous: RO-CEP 2016- 007 Phloroglucinol Dihydrate: R0-CEP 2013- 099 Trimethoprim: <i>R1-CEP 2005-115</i>	

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	Dates of inspection:	27-30/3/2017	
TGA	Type of inspection:	Re-Inspection	
		(overseas in relation to registration)	
	Block/Unit/Workshop:	Workshop 101	
		Building W32: TMP synthetic step 1 & 3	
		Building W19: TMP synthetic step 2	
		Building W47: TMP purification, blending and	
		packaging	
		Workshop 112 Building W12: granule and capsule manufacture	
		-Warehouses, tank farms, utilities and laboratory.	
		- warehouses, tank farms, utilities and faooratory.	
	Type of APIs covered:	Trimethoprim API & finished products.	
Part 3	Summary of the last WHO insp		
Date and	,		
conclusion of	2-5/2/2015		
most recent	Conclusion: GMP compliant		
WHO	1		
inspection			
Brief description	- The API facilities included d	edicated blocks (synthesis, purification and	
of	finishing) for SMZ and TMP AP	Is	
manufacturing	-The final purification and packa	aging took place in a clean area with a Grade	
activities	D environment.		
	- The HVAC system was dedicated in the workshops 101 and 102		
	-The equipment used for manufac	cturing TMP and SMZ were dedicated.	
	-Packaging and labelling was performed in areas dedicated for this purpose.		
	-The company had an organiz	zed and suitably equipped QC laboratory.	
	Equipment included HPLC, GC a	and other testing instruments.	
General	Shouguang Fukang Pharmaceution	cal Co., Ltd (Fukang Pharm.) was established	
information	in 1993. In 2003, it was GMP approved by SFDA. The factory occupies 641,		
about the	910 square meters including 14 workshops 280, 410 m2, storage area of		
company	16,620 m2 and quality control are	· · ·	
and		ve enterprise engaged in production, trading	
manufacturing	and scientific-research of APIs ar		
site	There are two DP workshops for	-	
	-	t workshops: FP workshop 、104 workshop	
	(NaBr).		
	All the chemical workshops are d	ledicated and individual.	
	-	em dedicated to Sulfamethoxazole production	
	& 140 dedicated to Trimethoprin	-	
		- r	
Focus of the	-The inspection focused on the	production and control of Trimethoprim and	
last WHO	Sulfamethoxazole APIs.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
inspection	- The inspection covered most of the sections of WHO GMP for Active		
	•		

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	Pharmaceutical Ingredients, including Quality Management; Personnel;
	Buildings and Facilities; Process Equipment; Documentation and Records;
	Materials Management; Production and In-Process Controls; Packaging and
	Identification Labelling of APIs and Intermediates; Storage and Distribution;
	Laboratory Controls; Validation; Change Control; Rejection and Reuse of
	Materials and Complaints and Recalls
Areas	-Workshops # 101, 102
inspected	-Warehouses: solid and liquid raw materials, tank farm, finished APIs,
	packaging materials.
	-Workshop 101 Production including finishing and packaging
	-Workshop 102 Production including finishing and packaging
	-Purified water system
	-HAVC (TMP)
	-QC Laboratory: Chemical and Physical Lab
Out of scope	None
and	
restrictions	
(last WHO	
inspection)	
WHO APIs	
covered by	-Trimethoprim API
the last WHO	-Sulfamethoxazole API
inspection	
Additional	
products	
covered by	None
this desk	
assessment:	
Abbreviations	Meaning
BMR	Batch manufacturing record
BPR	Batch production record
CAPA	Corrective and preventive action
CC	Change control
GMP	Good manufacturing practices
NC	Non conformity
NRA	National regulatory agency
NRA PQR	Product quality review
NRA PQR PQS	Product quality review Pharmaceutical quality system
NRA PQR PQS QA	Product quality review Pharmaceutical quality system Quality assurance
NRA PQR PQS QA QC	Product quality review Pharmaceutical quality system Quality assurance Quality control
NRA PQR PQS QA QC QCL	Product quality review Pharmaceutical quality system Quality assurance Quality control Quality control laboratory
NRA PQR PQS QA QC QCL QMS	Product quality review Pharmaceutical quality system Quality assurance Quality control Quality control laboratory Quality management system
NRA PQR PQS QA QC QCL	Product quality review Pharmaceutical quality system Quality assurance Quality control Quality control laboratory

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RCA	Root cause analysis
SOP	Standard operating procedure

Part 4 Summary of the assessment of supporting documentation

a) Manufacturing authorization and GMP certificate granted by the local authority:

-Valid Manufacturing authorization license No. 20160126, issued on 1/1/2016 and expired on: 31/12/2020.

-GMP certificate No.:SD20170589 for SMZ bulk production in workshop 102 issued by CFDA on 31/7/2017 and expired on 30/7/2022.

-GMP certificate No. SD20190888 for TMP production in workshop 101 issued by CFDA on 13/3/2019 and expired on 12/3/2024.

b) Site master file (SMF):

-A copy of updated SMF was submitted, Effective date: 19/3/2019, it was reviewed and found acceptable in line with WHO guidance on drafting a SMF.

c) List of all the APIs or other products (intermediates, dosage forms) manufactured on-site: List of APIs:

- 1- Trimethoprim
- 2- Sulfamethoxazole
- 3- Omeprazole
- 4- Lansoprazole
- 5- Itraconazole
- 6- Metformin HCI
- 7- Clozapine
- 8- Phloroglucinol dihydrate
- 9- Phloroglucinol anhydrous
- 10-Pantoprazole Sodium sesquihydrate
- 11-Esomeprazole magnesium dihydrate
- 12-Esomeprazole magnesium trihydrate
- 13-Omeprazole magnesium
- 14- Trospium Chloride
- 15-Pellets, Tablets, Capsules.

d) List of all regulatory inspections performed in the last 3 years and their outcomes:

Inspection	Date	Outcome
TGA [Australia]	27-30/3/2017	GMP compliant
SFDA [China]	11-13/5/2017	GMP compliant
MMA [Malta]	1-4/9/2017	GMP compliant
Shouguang Fukang Pharmaceutico	al Co. Ltd	21/10/2019

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CDSCO [India]	2-4/11/2017	CAPA submitted
SFDA [China]	9-11/12/2017	GMP compliant
ANSM [France]	17-19/1/2018	GMP compliant
FDA [USA]	21-25/5/2018	GMP compliant
MMA [Malta]	26-30/8/2018	GMP compliant
SFDA [China]	22-24/1/2019	GMP compliant

e) Most recent product quality review(s) (PQR)(s) of the concerned WHO API(s):

-APQR for TMP (year 2018) issued on 29/3/2019, where 623 batch, with total 1246 Ton, batch size: 2000 Kg, Packaging size: 25 Kg/Drum

11 Deviations, 12 OOS, 6 Changes, 2 Complaints, no return or recall, 4 failed batches.

Trends for critical process parameters and CQA & as well as calculated Cpk for process were in place.

Stability study program data was available.

-APQR for SMZ (year 2018) issued on 29/3/2019, where 515 batches were manufactured with total 1030 Ton for packaging size 25 kg/Drum.

10 Deviations, 11 OOS, 7 Changes, 2 complaints, no return & no recall or rejected product.

Trends for critical process parameters and CQA & as well as calculated Cpk for process were present.

Stability study program data was available.

f) Batch manufacturing and packaging record(s), including the analytical part, for the most recently released batch of relevant API(s):

Batch manufacturing and packaging records for TMP & Sulfamethoxazole with the analytical part were submitted and found acceptable.

g) Master batch manufacturing and packaging record(s) of the API(s) of interest:

-A copy of master batch manufacturing records of TMP were submitted including records for several process steps: Condensation compound of TMP, Oil Phase of TMP, Crude product of TMP, Decolouration process, Neutralization, crystallization, filtration and drying & Packaging.

- A copy of master batch manufacturing records of Sulfamethoxazole was submitted including records for several process steps: Dimethyl oxalate synthesis, Amide synthesis, Amino synthesis, Liquid crude product, Decolouration, Neutralization and crystallization, Filter-process and Washing, Drying & Packaging.

h) Recalls in the past three years related to APIs with quality defects:

-A declaration letter signed by qualified person confirmed that no recall has been done in the last 3 years for their manufactured products.

However, they implement mock recall every year to ensure that our recall procedure is valid.

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i) Confirmation by the senior quality assurance representative that a full self-inspection or external audit dedicated to the API(s) has been performed and all matters dealt with:

A confirmation letter signed by qualified person was submitted stated that during the last year 2018, There were 31 audits by customers, 2 audits by authorities, 1 self-inspection. The CAPAs for the external audit and self-inspection were all complied and approved.

j) Copy of any warning letter, or equivalent regulatory action, issued by any authority for their market, to which the site provides or has applied to provide the API(s):

-A confirmation letter signed by qualified person stated that they had not received any warning letter from any authority.

k) Out-of-stock situations:

-A confirmation letter signed by qualified person was submitted stated that the products [Trimethoprim and Sulfamethoxazole] have no out-of-stock situations and no out of stock situation is foreseen in the upcoming 3 years.

I) Additional documents submitted:

-CAPA report of USFDA inspection.

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 *SHOUGUANG FUKANG PHARMACEUTICAL CO., LTD* located at North East of Dongwaihuan road, Dongcheng Industrial area, Shouguang city, Shandong Province, P.R. of China is considered to be operating at an acceptable level of compliance with WHO GMP guidelines for APIs.

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
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 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 GMP for APIs or TRS No. 957, Annex 2 http://apps.who.int/medicinedocs/documents/s20119en/s20119en.pdf

 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 GMP Guidelines or WHO TRS No. 986, Annex 2 <u>http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_98</u> <u>6/en/</u>

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- 3. 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 https://www.who.int/medicines/areas/quality_safety/quality_safety/quality_safety/quality_assurance/TRS1010annex9.pdf?ua <a href="https://www.who.int/medicines/areas/quality_safety/safety/safet
- 4. WHO Good Manufacturing Practices: water for pharmaceutical use. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-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_97 <u>0/en/</u>
- 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. Part 2: Interpretation of Guidelines on heating, ventilation and air-conditioning systems for non-sterile pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-Third Report Geneva, World Health Organization, 2019 (WHO Technical Report Series, No. 1019), Annex 2. Short name: WHO TRS No. 1019, Annex 2

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 Good manufacturing practices: guidelines on validation. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-Third Report Geneva, World Health Organization, 2019 (WHO Technical Report Series, No. 1019), Annex 3. Short name: WHO TRS No. 1019, Annex 3

https://apps.who.int/iris/bitstream/handle/10665/312316/9789241210287-eng.pdf?ua=1

- 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/
- 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

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- 10.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
- 11. 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 <u>http://whqlibdoc.who.int/trs/WHO_TRS_961_eng.pdf?ua=1</u>
- 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 <u>http://whqlibdoc.who.int/trs/WHO_TRS_961_eng.pdf?ua=1</u>

 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.

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- 15. 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.
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16. 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.

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- 17. 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.
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- 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 <u>http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/WHO_T RS_992_web.pdf</u>
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- 21. 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 TRS No. 996, Annex 5 http://www.who.int/medicines/publications/pharmprep/WHO_TRS_996_annex05.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. 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 TRS No. 996, Annex 10

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24. WHO Recommendations for quality requirements when plant – derived artemisin is used as a starting material in the prosecution of antimalarial active pharmaceutical ingredients. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Ninth Report Geneva, World Health Organization, 2015 (WHO Technical Report Series, No. 992), Annex 6 *Short name: WHO TRS No. 992, Annex 6*

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