GUIDELINE ON QUALITY INSPECTION

OF MEDICAL SUPPLIES



QUALITY ASSURANCE AND STANDARDIZATION DIVISION MINISTRY OF HEALTH ROYAL GOVERNMENT OF BHUTAN

Quality inspection guideline and check sheets for medical supplies Quality Assurance and Standardization Division

Ministry of Health

Thimphu: Bhutan

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This publication contains the collective view of stakeholders from different clinical background.

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Foreword

Quality Assurance is a wide ranging concept covering all matters that individually or collectively influence the quality of a product or service. It is the totality of the arrangements made with the object of ensuring that products are of quality required for their intended use and services are of quality required for their intended output and standards. Quality assurance therefore also incorporates good manufacturing practices and other factors including quality inspection of the products before the intended use.

Quality Inspection is the act of monitoring or observing a product procedure, or service to insure compliance with the operational definition and to insure that all requirements or internal prerequisites are met. It is regarding sampling, specifications and testing in conformity with documentation and acceptance/rejection procedures which ensure that all necessary tests are performed and all features for the procured products are inspected. Performing all these procedures in a systematic manner would ensure quality medical supplies which are safe and effective resulting in delivery of quality health care services to the users. Hence, this guideline has been developed to ensure quality health care supplies and services.

I am pleased to introduce and share this guideline with all the health workers. I would like to express my appreciation to all those involved in publication of this standard guideline. More so, I urge all those involved in the quality inspection to always adhere to this guideline and ensure all supplies are inspected prior to distribution to health centers. Lastly, I hope that this guideline would contribute in ensuring quality health care services to the people of Bhutan.

Quality Assurance and Standardization Division, Ministry of Health | Foreword



1. Introduction:

The medical supply products of assured quality have the greatest potential for maximizing the impact and effort to accelerate access to better products. Ensuring quality assurance before distribution to the health centers for use in service delivery and treatment of patients is the responsibility of Quality Assurance and Standardization Division (QASD). Without a quality assurance system, organizations risk sourcing substandard, counterfeit or contaminated non-drugs and drugs, leading to complaints about products and product recalls, wastage of money and serious health risks to patients. Such problems affect the credibility of procurement system, cause financial losses and put patient's safety in danger.

This guideline is intended to cover only the quality inspection (QI) of medical supplies at the time of receipt at Medical Supply Depot (MSD) or Drug Vaccine and Equipment Division (DVED). It will provide detail procedure and standard operating procedures (SOPs) for quality inspection based on the category of the medical supplies. Only those medical supplies which have been certified by the QI Team as "Quality Passed" shall be distributed for use. However, this guideline will not be comprehensive and will not provide quality guarantee for each and every product, since the methodology is mostly based on organoleptic inspection and random sampling of the batches or group of products. The procurement agency and the users should continue post distribution surveillance to ensure quality.

2. Goal:

To ensure quality medical supplies those are safe, efficient and effective to provide enhanced quality, cost-effective and safe health care services in Bhutan. This guideline will also help to enhance the credibility in procurement of medical supplies.

3. Objectives:

- **3.1.** To provide a systematic procedure for quality inspection of medical supplies to be implemented by Ministry of Health.
- **3.2.** To set a uniform standard for inspection of medical supplies and will eliminate biasness.
- **3.3.** To assess compliance with the import of products following regulatory provisions of the country.
- **3.4.** To reduce the entry of substandard, counterfeit or contaminated medical supplies that leads to product recalls, wastage of resources and untoward health implications to patients.
- **3.5.** To ensure transparency of quality inspection procedures/ parameters and impart accountability to those involved in the process.

4. General Quality Inspection Guidelines

- **4.1.** All medical supplies procured or donated shall be subjected to QI and quality control using this guideline and the quality inspection check sheet (Annexure1-7).
- **4.2.** The QI shall focus on organoleptic properties such as physical appearance, quality of labelling and packaging, optical bench observation for intravenous fluid, cold chain storage requirement etc. for all supplies.
- **4.3.** For pharmaceuticals, samples shall be collected only for those suspicious products as per the sampling methodology (refer section 7) for analytical quality control test. The samples shall then be despatched to an appellate laboratory by PHL till such time the capacity and facilities is established within the country.
- **4.4.** DVED upon receipt of consignment directly or upon intimation from MSD shall inform QASD within 5 working days along with the details of consignment such as copy of Purchase order, Invoice details and other relevant documents. The quality inspection shall be carried out within ten working days upon the receipt of the information from DVED/other procurement agencies.
- **4.5.** The QI shall be coordinated by QASD in consultation with relevant stakeholders and specialities. A QI Team shall be constituted by pooling relevant technical experts from JDWNRH/other hospitals/Bio-medical Engineering Service (BES) and other relevant departments/divisions based on the technicality of supplies and shall be deputed

- to MSD, DVED or to the installation site by QASD, whenever deemed necessary.
- **4.6.** Wherever deemed necessary directives from the ministry shall be sought for medical supplies needing quality inspection at the site of origin. This would however be in line with the existing procurement manual.
- **4.7.** The QI Team should also focus on any error made during the selection in the previous year which can be amended in the subsequent year.
- **4.8.** Samples/selected medical supplies in consultation with DVED/MSD/relevant specialities shall be sent for quality inspection to DVED. Quality inspection will be done in DVED by the QI team. The sampling should be done as per the sampling procedure (refer section 4).
- **4.9.** The thumb rule is that all medical supplies should have minimum of ¾ of the shelf life remaining upon receipt at MSD. For those supplies which have shorter shelf life (as per the tender) shall be received as part shipment.
- **4.10.** Samples once selected during the tender selection by the tender award committee should be final and binding wherein no alternate products should be accepted. However, if the manufacture of the selected sample has been stopped by the manufacturer, the supplier should notify DVED and a copy to QASD prior to the supply of an alternate product for further approval.

- **4.11.** The QI team/QI inspector shall fill up the QI check
 - sheet by recording their findings and signing on the same. Products not complying with the sample submitted earlier by the suppliers/standard/specifications or reported poor quality should be intimated to DVED, so that necessary action can be taken for rejection or replacement of the QI failed products as per the Terms of Reference of the tender.
- **4.12.** The QI Team/Inspector should ensure that the Quality Inspection Sheet is filled completely and should indicate NA (not applicable)/NR (not required) wherever deemed necessary against the specific parameter on the sheet.
- **4.13.** Upon completion of the QI, the QI Team/Inspector should seal the QI check sheet with appropriate label i.e. "Quality Passed" for QI accepted items/goods and "Quality Failed" for rejected items/goods accordingly.
- **4.14.** The QI Team/Inspector should furnish the QI Report to QASD. The QASD shall then forward the reports to DVED/MSD.

5. Guidelines for MSD

1.1. Medical equipments requiring functionality testing at site shall be directly delivered to the designated site along with the relevant documents such as Purchase Order (PO), QI checklist and Invoice copy. It must be indicated in the terms and condition that the installation shall be

completed within two weeks upon receipt of the equipment at MSD.

6. Categories of Medical Supplies

- **1.1. Medical Equipments:** Medical equipments are a group of devices that are used for medical interventions in the process of patient's health care services. This guideline defines medical equipments into two following categories:
 - 1.1.1. Electro-medical equipments: Electro-medical equipments comprise of any medical equipment that are used for diagnostic or therapeutic purposes and requires electrical input for its functioning. It can be classified as either essential or non-essential equipment.
 - **1.1.2. Non Electro-medical equipments:** All medical equipments that are used for diagnostic and therapeutic purposes and do not require electrical inputs for its functioning.

1.1.3. Quality Inspection Parameters;

- i. Packaging
- ii. Labelling
- iii. Quantity

- iv. Specification
- v. Functionality
- vi. Operational/User Manual
- vii. Quality Standard Credentials

1.1.4. Procedure for Quality Inspection;

- Start with visual examination.
- Check and inspect the physical features of the equipment (shape, absence of any parts, external damage).
- iii. Compare the technical specification as per the approved catalogue or purchase order whichever is comprehensive.
- iv. Check the completeness of the supplies including all the necessary accessories. Check the supply of user manual or operational manual along with the equipment.
- v. Perform the functional test run at the installation site using varied conditions.
- vi. There shall be proper documentation of commissioning and handing taking over of the installed equipment from the concerned administration of the health facility.

1.2. Surgical Instruments: - Instruments or a device that are specially required to carry out special/invasive procedures.

1.2.1. Quality Inspection Parameters;

- i. Packaging (External)
- ii. Labelling
- iii. Specifications
- iv. Physical condition
- v. Functionality
- vi. Adaptability

1.2.2. Procedure for Quality Inspection;

- i. Arrange the packages in stacks
- ii. Check the invoice for quantity
- iii. Inspect the packaging for proper labelling, damages and record
- iv. Perform the sampling as per the sampling guidelines (Refer section 6)
- v. Samples collected should be visually inspected
- vi. Measure the dimensions as per specification in the

PO, or catalogue

- vii. Perform the basic functionality tests
- **1.3. General Medical Instruments:** Instruments that is used for general procedures by all the categories of health care professionals.

1.3.1. Quality Inspection Parameters;

- i. Specifications
- ii. Labelling
- iii. Packaging
- iv. Functionality
- v. Adaptability

1.3.2. Procedure for Quality Inspection;

- i. Arrange the packages in stacks
- ii. Check the invoice for quantity
- iii. Inspect the packaging for proper labelling, damages and record
- iv. Perform the sampling as per the sampling guidelines (Refer section 6)
- v. Samples collected should be visually inspected
- vi. Measure the dimensions as per specification in the PO, or catalogue

- vii. Perform the basic functionality tests
- 1.4. Consumables:-Any medical or non-medical items required for general or therapeutic purpose and for day to day operation of health facility. Generally it comprises of disposable or re-usable items which can be used for a certain period. Pharmaceutical products, laboratory reagents and chemicals do not fall under this group. Consumables may be further sub divided as follows.
 - **1.4.1. General Consumables:**Basic utility items required to facilitate and support the healthcare services including linens, sundries, dressing materials

1.4.1.1. Quality Inspection Parameters;

- i. Packaging
- ii. Labelling
- iii. Uniformity
- iv. Specification
- v. Functionality
- **1.4.2. Medical Consumables:** usually prescribed by the medical practitioner for a therapeutic purpose and will include all pre-packed sterilized consumables.

1.4.2.1. Quality Inspection Parameters;

- i. Packaging
- ii. Labelling

- iii. Uniformity
- iv. Specification
- v. Functionality
- vi. Compatibility
- vii. Suitability
- viii. Accelerated stimulation test.

1.4.3. Procedure for Quality Inspection;

- i. Arrange the packages in stacks
- ii. Check the invoice for quantity
- iii. Inspect the packaging for proper labelling, damages and record
- iv. Perform the sampling as per the sampling guidelines (Refer section 6)
- v. Samples collected should be visually inspected
- vi. Measure the dimensions as per specification in the PO, or catalogue
- vii. Perform the basic functionality tests
- **1.5. Pharmaceutical Products:** All the finished pharmaceutical products including diagnostic agents such as radio-contrast agents and ingredients used for extemporaneous compounding. Such substances are intended to furnish pharmacological activity or other direct effect in

the diagnosis, cure, mitigation, treatment or prevention of disease or to affect the structure and function of the body.

1.5.1. Quality Inspection Parameters;

- i. Labelling specifications
- ii. Batch analysis certificate
- iii. Secondary packaging and primary packaging
- iv. Physical characteristics

1.5.2. Procedure for Quality Inspection;

- i. Arrange the consignment for sampling
- ii. Verify the necessary documents and cross check with the physical quantity.
- iii. Verify the batch analysis certificate.
- iv. Collect the sample as per the recommended sampling procedure.
- v. Examine both the secondary and primary packaging for legibility, completeness and intactness of the label and the integrity of the seal. Look for any physical damage or any other indications of tampering.
- vi. Examine the following physical characteristics of different dosage forms as follows:

- ✓ General appearance such as colour, texture and odour for all kinds of dosage forms.
- ✓ Shape, discoloration, abrasion, cracks, embossing and breakage lines.
- ✓ Test for uniformity of weight for both tablets and capsules wherever feasible.
- ✓ Flowabilty, crystallization, lump formation and presence of foreign materials in powders.
- ✓ Clarity and colour, presence of microbial growth in case of liquid dosage forms such as parenterals; dispersibility and flowablity for suspensions, phase inversion, caking and viscosity of emulsions.
- ✓ Ease of flow, spread-ability and content uniformity for semisolid dosage forms.
- 1.6. Laboratory reagents and chemicals: This category comprise of reagents and chemicals that are intended for use in a healthcare diagnostic laboratory. Almost all the laboratory reagents have short expiry date and are liable for change in stability and homogeneity when subjected to adverse or prolonged storage condition. The laboratory chemicals usually have high shelf life and are stable for a long time at room temperature. The reagents and chemicals require quality inspection parameters that are different from each other.

1.6.1. Quality Inspection Parameters;

- Physical appearances such as turbidity, agglutinations and texture
- ii. Pack size
- iii. Batch analysis certificates
- iv. Stability of the reagent
- v. Transportation mode
- vi. Leaks and other related damages
- vii. Packaging and labelling
- viii. Manufacture date and expiry date
 - ix. Reproducibility and precision of the reagent (conducted in the Laboratory)
- 1.7. Vaccines and Biological: This category includes healthcare products that are biological in nature and require advanced safety handling protocols. The stability of these products is highly sensitive to physical changes particularly to temperature variations. The risk to people's health cannot be guaranteed should these products leak out to the environment. Similarly, the intended efficacy of these products is considerably compromised if not handled with required protocols of storage, transport

and distribution.

The products under this category include vaccines, reference serum samples, immunological products, toxins, venoms, and bacteriological reference strains for quality control of culture and susceptibility testing in the laboratory.

1.7.1. Quality Inspection Parameters;

- i. Vaccine Vial monitor reading
- ii. Cold chain system maintenance
- iii. Storage conditions
- iv. Pack size
- v. Lot release certificate/ Batch analysis certificates
- vi. Transportation mode
- vii. Leaks and other related damages
- viii. Packaging and labelling
 - ix. Manufacture date and expiry date

7. Sampling Methodology

 All medical supplies should be arranged systematically to represent the entire consignment. It should be either stacked or evenly displayed so that sampling

- will be uniform, representative and appropriately randomized.
- ii. The consignment should be arranged in stacks of 5x5x5 (length x breadth x height) boxes or cartoons or containers for each batch. The samples should be drawn or picked in a randomized manner from the unopened secondary (outer) packages.
- iii. Sampling should be conducted as per the procedure and must have the representative numbers as indicated against each category.
- iv. Random or blind pick sampling may be done as and when necessary or when the bulk of the supply is large and there are no batch or lot numbers. The sampling is done wherein a set of number of products is drawn or picked depending on the number of batches or lots received/containers received per consignment.
- v. All medical supplies, irrespective of equipments or consumables which has specification in terms of measurement (weight, size, area, thickness, length), measurement test should be performed as indicated in the sampling procedures. Not more than 5% of the samples measured should deviate from the measurement specified.

7.1. Sampling method for equipments

- High end electro-medical equipments should be inspected individually at the site of installation or at MSD/DVED using appropriate QI form and installation and handing taking report.
- ii. The inspection team should ensure that every possible features of an equipment received is thoroughly inspected.
- iii. Reports of equipment installation and handing taking of the equipment should be furnished to DVED and QASD.
- iv. Sampling as per prescribed procedure such as lot sampling or batch sampling is applicable to other non-electro medical equipments. This includes sampling from all the different lots received.

7.2. Sampling method for pharmaceutical products

- i. Assess if the pharmaceutical products received were stored according to the manufacturers or international standard recommended storage conditions (temperature and humidity).
- ii. Samples must be kept and stored according to the rec-

ommended storage conditions till the QI is over.

iii. Sample size (number of units/sample):

- ✓ At least 5 primary packages should be opened from each batch stacked for sampling. Minimum 10 unit dose preparation (such as tablets, capsules and sachets) and 10 units for injectables from the 5 primary packages should be collected from the stacks as recommended above. The sampling should be repeated for each batch if the supplies are made in more than one batch.
- ✓ Effort should be made to collect, whenever possible, a minimum of **5 samples** for each product per batch per sample collection round.
- ✓ There is no need to collect sample of the same batch of the product again unless some unusual labeling, packaging, expiry date, manufacturing date or physical characteristics of the product are observed.
- ✓ This quantity/number of sample units should be sufficient for complete screening using physical and visual inspections. In case of suspicion and if further laboratory testing is recommended, re-sampling will be done as per the sampling protocol of the Drug Testing Laboratory.

7.3. Sampling method for all medical and general consumables

- Sampling will be conducted in a randomized manner wherein the sample selected will be representative of the particular batch or lot or consignment.
- ii. In case of medical consumables, effort should be made to collect the samples for all the different containers of same batch as well as from all the different batches.
- iii. However, general consumables should be sampled only from different packaging and should be representative of the whole consignment irrespective of number of containers received per batch.
- iv. The total quantity sampled should not be less than 20% of the total quantity received or 10 pieces whichever is greater.

7.4. Sampling method for instruments

- i. Inspect every 5th piece from the lot and inspect at least 10 pieces if the total number of instrument is less than 50 or more than 20. The instruments should be properly arranged to facilitate good sampling practices (randomization and representativeness).
- ii. If the total number of instruments is equal to or less

than 20, inspect all. However, inspect all the batches/lot/ consignment in similar manner if the consignment consists of two or more different batches or part shipment or lot.

iii. Pick every 9th piece from each lot if the total quantity is more than 100 pieces. Effort should be made to inspect at least 25 pieces.

7.5. Sampling method for powders in bulk packaging

- i. Arrange the consignment in stacks of secondary packaging as for pharmaceuticals.
- ii. Sampling should be conducted in a randomized manner.
- iii. Collect from at least 2 secondary packages a minimum5 primary packaging.

Reference:

- A model quality assurance system for procurement agencies. World Health Organization (2007) Geneva, Switzerland
- A guide for the development of medical device regulations: Pan American Health Organization 2002
- Guidelines for Health Care Equipment Donation, \$th Draft, World Health Organization, WHO/ARA/97.3
- http://procurement.ifrc.org/catalogue/quality.aspx
- http://procurement.ifrc.org/catalogue/overview.aspx?volu me=2&groupcode=203&familycode=203003
- http://hinfo.humaninfo.ro/gsdldata/collect/healthtech-docs/index/assoc/s15250e/s15250e.pdf

QUALITY INSPECTION (QI) CHECK SHEET FOR EQUIPMENTS

Specification

Note: Not Applicable (NA), Not Required (NR)

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HECK SHEET]	QUALITY INSPECTION (QI) CHECK SHEET FOR SURGICAL INSTRUMENTS	zility:	urer:
ITY INSPECTION (QI) CHECK SHEET)		ame of the health facility:	ame of the manufacturer:

	_	_	_	_	_	_	_
Quantity accepted							
Quantity							
Sample size							
Reference Sample Quantity Quantity (Sample/ size ordered accepted Catalogue/ PO)							
Complete- ness of spares (Yes/No/ NR)							
Individual Specification Functional/Not Complete-packaging compliance functional ness of (Yes/No) (Yes/No) (Yes/No) (Yes/No) (Yes/No)							
Specification compliance (Yes/No)							
Individual packaging (satisfac- tory or not)							
Outer had backaging packaging packaging (sacceptable to or not)							
SI. Item description (include receipt No. specification)							
SI. No.							

Name of items rejected:	Quantity rejected:
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Comments if any:	1any:

Name and signature of the QI inspectors:

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Note: State NA wherever not applicable

.....b. Date of QI:

a. Name of the health facility:

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Note: State NA wherever not applicable, * for laboratory reagents, the precision of the reagent should be calculated at the site

QUALITY INSPECTION (QI) CHECK SHEET FOR PHARMACEUTICALS.

(One form for one particular drug)

Name of the health facility:	ge form: f. Year	of supply: g. Purch	nase & invoice or	Name of the health facility:	rug: Invoice Qty:
i. Manulactureu by:	1{	малшассиге date: n. Batch No.:	k. Expiry date o. Batch analys	ı. Manulacturet by:	
Secondary packaging	ackaging	Primary packaging	aging	Organoleptic properties	perties
Material specification		Material specification (plastic, aluminum etc)		General appearance (shape, size, engrave- ment, etc)	
*Integrity of seal pack		*Integrity of seal pack		*Any discoloration or abnormal odor (Yes/No)	
* Labeling quality		*Security features if any (hologram, bar coding, etc)		*Presence of foreign material or microbial growth (powders and liquids)	
*Any physical damage detected (Yes/No)		*Labeling quality (legibility & completeness)		*Uniformity of weight	
		Is packaging insert available (Yes/No)		Variation in weight and size (tablets and capsules)	
		8Any physical damage detected (Yes/No)		*Clarity of solution (parental only)	
				Any other parameters (if applicable)	

	(For time being no capac-	
	(b) Quantitative:	out for testing outside the country
		driige only suspicious driigs are se
Comments if any:	Drug test: (a) Qualitative:	ty to conduct test for all the

Name and signature of QI Inspectors:

ACCEPTED/REJECTED (Tick one)

If rejected, justify:

Quality Assurance and Standardization Division (QASD), Ministry of Health. | QUALITY INSPECTION (QI) CHECK SHEET FOR PHARMACEUTICALS

Annexure 4

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QUALITY INSPECTION (QI) CHECK SHEET FOR VACCINES & BIOLOGICALS AND OTHER THERMO-LABILE SUBSTANCES

a. Name of the health facility:		a. Name of the health facility:	the product:
d. Purchase order & invoice No.:	e. Quantity ordered:	d. Purchase order & invoice No.:	
h. Sample size:	i. Manufacture date:	h. Sample size:*Lot release certificate (Yes/No):	release certificate (Yes/No):
l. Recommended storage temperature:	m. Cold cha	1. Recommended storage temperature:	e: VVM incase of vaccines)
Packaging & labeling	& labeling	Organoleptic properties	operties
Material specification		General appearance	
*Integrity of seal pack		*Is the appearance complying with the finished product specification	
*Labeling quality (legibility & completeness)		*Clarity	
Is packaging insert available (Yes/ No)		*Presence of foreign material or microbial growth	
		Any other parameters (If applicable)	
ACCEPTABLE/REJECTED (Tick one)			
If rejected, justify:		If rejected, justify:	

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Comments if any:

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Note: State NA wherever not applicable, * mark indicates mandatory for QI to be passed

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[QUALITY INSPECTION (QI) CHECK SHEET]

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. Na	Name of the health facility:								1	o. Date of Q	I:		
Pur	. Purchase & invoice order no:					Name of th	e supplier:						
SI. No.	Item description	Functionality (functional or not/NA)	Conformity to specification (Yes/No)	Packaging (satisfactory or not)	Qty.	Qty. Qty. accepted rejected	Qty. rejected	Mfg. date	Expiry date	Manufac- turer	Sample size	Q1 reference (catalogue/ sample/ purchase order/in- voice)	
hose	Phose items that need weighing and measurement as well as other necessary checks has to be carried out on the random sampling (e.g. bandages, gauzes, cottons, olasters etc)	ig and measuren	nent as well as o	other necessar	y checks h	as to be car	ried out or	ι the rar	dom sam	npling (e.g.	bandages, ga	auzes, cottons,	
omr	omments if any:												
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ame	lame and signature of QI Inspectors:	spectors:											

Note: State NA wherever not applicable

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[QUALITY INSPECTION (QI) CHECK SHEET]

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a.	a. Name of the health facility: d. Year of supply: b. Date of QI: b. Date of QI: c. Name of the item:
e.	e. Manufactured by:
h. S	h. Sample size:
m. Q	m. Quality standard mark: (ISO/CE/GMO/ISI) - Tick

Secondary (outer) packaging	er) packaging	Primary (immediate product) packaging	oduct) packaging	Organoleptic properties	properties
Material specification		Material specification		General appearance	
Integrity of seal pack		Integrity of seal pack		Any discoloration or abnormal odor (Yes/No)	
Labeling quality		Security features if any (hologram, bar coding etc)		Compliance to the approved sample/catalogue	
Any physical damage detected (Yes/No)		Labeling quality (legibility & completeness)		Uniformity of dimensions	
		Any physical damage detected (Yes/No)		Any other parameters (if applicable)	
ACCEPTED/REJECTED (Tick one) If rejected, justify:	Tick one)	ACCEPTED/REJECTED (Tick one) Quantity rejected: Quantity accepted:		Quantity accepted:	cepted:
Comments if any:		Comments if any:			

Inspectors:
5
5
signature
and
ame

Note: State NA wherever not applicable

2

3

DZONGKHA SECTION

7 茶新

त्रभः अर्थः स्वीतः विच्यः अर्थः स्वीतः स्वीतः स्वीतः स्वीतः स्वीतः स्वातः स्वीतः स्वातः स्वीतः स्वातः स्वा

২ 5ঞ্চীৰাশ'ৰাচুদ্য

त्यन्त्रेत्याश्चर्यात्र्यन्त्र्यत्यक्ष्यात्वयः क्षेत्रः विषयः कष्टिः विषयः विषयः कष्टिः विषयः व

२ ५क्षेण्यः र्देबा

- 2.2 र्क्ष-मार्वे देन्द्रम् वित्र स्त्रीय स्त्रीय स्त्र क्ष्या मार्थे स्त्र स्
- २.२ श्रुवःरेम्बार्श्वराहरात्रक्षाः वदायद्वेषायम् वे र्द्धः कुषाः यमः ग्रीः विस्रवास्य विष्याः स्वास्य । विस्रव
- अरस्य चमीय कुं मी र्रेक सी रिश्त स्थान स्
- २.५ नहना लेन रेश या तरी पुरसाना साथा की र्वेना यस तमा साथ ही उदाना हैना त्या नर्वे । देनी वनसाय सहिता की दा

८ श्वीरायहराश्चुशार्ट्यन्यह्वालियायसार्भ्रेद्रा

- इत्रुवःह्यः नग्रसः श्रेयः स्रोतं न्युवः तन्दर्धिन् से न्दाः न्यां विवायः रसः त्ययः नहेदः सर्वः क्ष्यः क्ष्यः क्ष्यः क्ष्यः त्यः हिद्यः विवायः क्ष्यः विवायः क्ष्यः विवायः क्ष्यः विवायः क्षयः विवायः क्ष्यः विवायः क्ष्यः विवायः क्ष्यः विवायः क्षयः विवायः क्षयः विवायः क्षयः विवायः क्षयः विवायः व
 - स्य श्रुकार्कन्त्रम्मालियावन्तिमार्केचिः स्टामलियाचीः सुकार्कन्। व्यथ्यार्कन्। व्यथ्यार्कन्। व्यथ्यार्कन्। व्यथ्यार्कन्। व्यथ्यार्कन्। व्यथ्यार्कन्याः स्थियाः विवादिन्यः स्थियाः स्थियाः विवादिन्यः स्थियाः स्थियः स्याः स्थियः स्थियः स्थियः स्थियः स्थियः स्थियः स्थियः स्थियः स्थिय

- हेबस. २० बी.बर.उ.क्र्स.हें.स्य.चेबस.क्र्य.ते.हें.क्ष्य.चे.हें.क्ष्य.चे.हें.क्ष्य.चे.हें.क्ष्य.चे.हें.क्ष्य.चेवस.क्र्य.चेवस.क्ष्य.चे.हें.चे.हें.क्ष्य.चे.हें.क्ष्य.चे.हें.क्ष्य.चे.हें.क्ष्य.चे.हें.क्ष्य.चे.हें.चे.हें.चे.हें.चे.हें.चे.हें.चे.हें.चे.हें.चे.हें.चे.हें.
- दः भ श्रुषः र्कत्यह्मा लियः श्रेः र्कदः श्रीः यहमा लियः र्विना र्ययः यत्ते र्वित्र स्थाः श्रीः यद्वीः त्र्वीयः सः कितः त्रे वित्र स्थाः श्रीः यद्वीः त्र्वीयः सः कितः त्रे वित्र स्थाः स्थाः स्
- ८.७ चहवा:बिच:र्मेवा:येचायेचायदी श्रुका:र्क्यन्दा श्रुक्याच्याकाःश्रेषाःश्रेःक्यायः। बेद्रका:यकाः श्रुद्राष्ट्रका:द्राराजकवाःश्रेःक्यायः। स्थिता:वर्षाःबिच:र्मेवा:येवा:येवा:वर्षाःक्षेत्रःक्याःश्रेःक्यायः।

৸ হক্ষপশ্ৰীব্রীস্ব

५.७ न्ध्रन्ग्री राह्म तरीयार्के मंत्राम्यायायार्केन्ग्री देवायु त्यवा त्येव त्यव देखीवा

५.७.७ ह्युकार्कन्यह्याः विचाग्रीः र्कन्यवि।

- ध्रेतेन्दर्स्
- মে:দ্রীবা
- শৃত্তমা:মাধ্রুর
- খ্রীনিবাধ্যামূহমা
- यमायेदायवरामहुमान्दरस्यामहुमा

५.७.२ सुकार्कन्यहम्वियग्रीःरेकाम्

- राक्षार्श्वेयावरीर्वे रेयाश्चे प्रव्याप्त्री
- र्टॅंट्स्न्यां त्रेंट्र्स्ट्र्न्स्यिया द्वे लिया त्रवर्द्द्र्म्
- उक्तरां शुर्वार्क्ष त्वीत्रार्क्ष विश्वार्वे विश्वार्ये विश्वार्
- आर्वे श्रुव वनाव कु नर धरहे द नर्दे अ र्वे नर विषय कर्म विषय है निवि
- वेर्क्ट्विर्वेष्ठवान्त्रत्वार्थान्तुवार्स्वः रहेः विवायवर्ग्न्वेष्

ও মার্ফ ক্রমান্তী ইনামা

७.७ श्वीरायम्सार्ये कथा ग्री देवाबा

क्षार्स्याम् क्षेत्राची देवात्याचा या चे प्रतेष्ठक्यः नियम् स्थान्त्र स्यान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्य स्थान्त्र स्थान्य स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्यान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्य स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्यान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्य स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्थान्त्र स्य

७.२.२ झुषार्कन्यहमालीयाग्रीरकन्याली

- বর্ষারহ্মা
- মে:প্রমা

- र्वे.श्रूशशा
- ৰ্ক্ৰ্যুন্ধী
- ষ্ট্রীনীব্রাস্কৃহরা
- यजाः येदायवन चतुन "द्राया चतुना

৫ ় ব্লুব্'বঠিম'গ্রী'মার্বি'কম্

लया लया त्रिया वित्व द्वीत स्त्रीय स्

७.२.७ शुक्षः र्कन्यह्या दियः ग्रीः र्कन्यदि।

- •ু দ্বীপ্র-ঘর্ষারহ্মা
- মে.লুখা
- र्ने:ध्रुंसमा/मडेम:सन्नुना
- ষ্ট্রিনাব্যামুদ্র্যা
- यमायोदायवरायतुमः न्रायाप्ता
- র্ব্যাবেশ্বন্তব্য

७.२.२ शुर्वार्कन्यह्वालियारीयाया

- राक्षार्भेयावरीरीयायास्यावनार्गा
- र्टैंटर्डेन तर्वेरर्ट्टर्डे धेन न्हें लेन तन् र्ने
- श्रुवः श्रुवः श्रुवः त्रीः वार्षियः विदेश्यात्रे विदेशे द्राप्ते विदेशे द्राप्ते विदेशे द्राप्ते विदेशे द्राप्ते विदेशे विदेशे द्राप्ते विदेशे विदे
- उ.क्.स. झुंश : क्र्रिंन त्री : त्र त्र त्र त्र त्र त्र त्र क्षेत्र क्
- उः क्रथः नृथे : क्रॅन्गुः ने्द्रायुः वान्यः वः चमुनः र्षेत्रः भ्रेः यने येवाशः र्वे अः श्वेः नृष्ठेः विवायत्र न्वे।

 विवायत्र नवे।

 विवायत्र नवे।

 -

- अर्तिः श्रुपः चगातः श्रुः । यर छैर ५ र्रेश र्ते १ ५ र र वियः कर्न ग्रिश चर्रः १ विव
- वेर्ध्वेर्द्रात्ववः वर्तृवः सः वर्तृवः र्स्तुः र्वेः विवः त्ववः र्वे।

থ বৃধী:ঠেন্দ্রেন্দ্রম্পাশী:রনপাশ্যমা

- न्ये क्रिन्नह्रम् लिन त्यन् न्यते अन्यश्रम् देश न्यन्य स्थित् ने अपन्य स्थित ने अपन्य स्थित ने अपन्य स्थित स्थानिक स्थित स्थानिक स्थानिक
- उःस्वरःग्रीःवर्धदःदेशःखरः सेन्से न्द्रीः प्रस्तेतः उःस्वरः वर्धदः सेन्से व्यतः स्वरः सेन्से वर्षः सेन्से सेन
- अक्ष्यां नह ना होना कर्ना वह ने वह क्ष्यां के क्ष्यां क्षेत्र ने क्ष्यां क्ष्यां

୰຺৴ য়ৣ৻ৼয়ঀয়য়ৣ৽ৼ৾৻য়য়ৢৼঀ৾৽৻ৼৼয়ৼয়৽৻ঀয়য়য়য়৸য়৸

- शूब्रियाशार्क् प्रश्रेषा र्देन् न्याय्वर्या श्रेष्यविष्या श्रेष्य प्रश्रेन्य स्वाविष्य प्रयम्

 नुविष्य
- सूयार्कन्यह्मालियाययन्यार्करार्क्त्रार्क्त्रार्वेयार्वेन्द्रम्यस्यार्थेयार्वे
- - ·ं· श्रैथ.र्ह्याय.र्ट्य.क्या.क्ट्र्या.प्य.विर.र्टर.। यर्जेश.वरणा थैय.र्ह्याय.^{ख्र}.क्ट्र्या

नर्वे सुदात्त्व केंगा ध्रेते इसमार्क् न्द्रे लेन तनन्नि

৩.২ ষ্ট্রীমনদমন্ত্ররাণ্ডী,আর্মিকেশ,শমন্ত্ররান্থল,শ্বনিক্রিশ্যমান্ত্রনাধা

- अूत्रम्थाणीः तर्वेदारीया जारावारीया जीवा स्वर् द्वार्ये प्रेर्वे के के विद्यालय प्रवासिक के विद्यालय के व
- सार्वे क्रम सूत्र श्री सूत्र मा स्वाप्त क्रिया क्षेत्र स्वाप्त स्वापत स्वाप्त स्वापत स्वा

थ.३ क्षेत्रैवाबायर्वेरकेदानहवा विचायसासुवाबा

- છેં ત્રેન્ન બાર્સ્ટ, ત્રાપ્ત પ્રત્યે ત્રેન્સ સંત્રું ત્ર સંત્ર સંત્રું ત્ર સંત્રું ત્ર સંત્રું ત્ર સંત્રું ત્ર સંત્રું તે સંત્રું તે સંત્રું ત્ર સંત્રું ત્ર સંત્રું ત્ર સંત્રું ત્ર સંત્રું સંત્રું ત્ર સંત્રું ત્ર સંત્રું તે સંત્ર સંત્ર
- र्धे र्क्न त्रीयार्द्ध्न पञ्चे त्रश्च लेवस्य त्रस्य विवायन प्रमी
- नष्ट्रसः र्ह्मेस न्ये क्रिन्य स्टेस माद्रिस न्ये क्षेत्र मुक्त स्ट्रीस माद्रिस क्षेत्र म्ये स्ट्रिस माद्रिस माद्

W. T.	धुकार्रिन्दियान्ध्रिन्क्रेयाया	यवा						N	२०१० न्युःर्यमा ०८	1.03
¾€₹? }iπ / t7	ब.क्यम्ब्री			187.	5্রণ্ট্রত কমান্ত্র্য র্জন বিশ্ব শ্রন্তিশ্ব শ্ববা স্থান স্থান স্থান স্থান নেমণ্ড শ্রন্থ	नेय म्डिम्सेया येषा हेश्य त्यम् श्रि	थुषाळ्ट्रन्वियान् <u>ध</u> र	R R R R		- দ্রিদ্'ট্টি ডক্তম'' স্থুম'র্কদ্গিব'ন্ড্রান্সিব'ন্ড্রান্সিব'ন্ড্রান্সিব'ন্ড্রান্সিব'ন্ড্রান্সিব্যান্ত্রার্থা মুস্থার্কান্তরান্ত্রী
(Hal) Z Z				7 11 (8	(S) 73 X					
(M.F.	अर. समिज्ञान्यमा धुरित्रम्बसर्कन् र्मनाम्बर्भार्क् (यहुन) क्षेत्रहन)	धिरेत्रम्बर्धार्स्टर् ६८:वाःध्ववार्द्धः (यह्न्यः) स्थायह्यः)	र्रासिनमञ्जा क्रियाससम्हत् (स्रि/सिर्	याठेया सञ्जब (स्पर/स्वर)	यवायेद्वयः (यहुवः/ संयहुवः)	ययायक्तवम् तर्ममङ्गितिक्यम् वर्मयम् । (पहुमः) र्कर(यित्र) द्यः/नर्देशभ्रं संपद्धनः) सेत्रे	न्त्रेयः महतः न्यः /न्द्रसः भ्रः	इ.स.स्टर	त्र्यंद्र-छैन्: अव्यासःस्रत्याकाः	त्रसंदर्कतः रहायब्रह्म
7. 7.	ર્દેશ 'વેલ સે દ્વારતે જ કર્તા મું સેન	∄.સે∽:					र्सायम्	सेन्यदै इ.क्र	৴য়৻ঀ৻য়ঀৼঀ৾ঽড়য়৻ঀৣ৾৻ঽঽ৾ৼঌ৾ঀ	
C										
п										
নমম	'तकर'याबद'र्थेराद"	***************************************	***************************************	***************************************	***************************************	নমনকম্মান্তর্ম শুর্ব প্রশি		***************************************		***************************************
ब्रेय: ५	धुरायदेःसैरात्राहमा		***************************************	· · · · · · · · · · · · · · · · · · ·		विचर्नधर्मकोरम्हर्मम्बाजः । । । । । । । । । । । । । । । । । । ।	***************************************	ζ.	***************************************	***************************************

क्षुकार्ऊप्रवेदार्ग्धर्भ्यमाया			२००० नद्भेर्भमा ०८
	ક્ષત થી ખુબાર	क्षुंतर्धीः सुषार्क्तरिवयः न्धुन्त्रेया त्येषा सुषार्क्तरिवयः	(전기를 중세
		अन्तर्का है।	् तुरा हेत्र
असिक्षयाचात्रक्तां अस्यात्रक्तां अस्यात्रक्तां अस्यात्रक्तां अस्यात्रक्तां अस्यात्रक्तां अस्यात्रक्तां अस्यात्रक्षां अस्यात्रक्तां अस्यात्रक्तां अस्यात्रक्तां अस्यात्रक्षां अस्यात्रक्षात्रक्षां अस्यात्रक्षां अस्यात्रक्षां अस्यात्रक्षां अस्यात्रक्	. कॅर.बेना घे ध्येना खर 	<∄य 'ব¤रॐर या	নই শ্বিমার বিশ্ব নি
	ाबंद-देताकारबंद-देताकार	वर रेस पड़े	ु दे न ' यबंद देश पट्टे वेन थया खेर (थेंप/सेन):''''''''''''''''''''''''''''
নমূম র্কন্মীন্দ্র।	नक्षरा र्क्नपार्डे में		क्रमाबिबुश्चर्यास्य हुवाया
र्वेषण्यायायायायायायायायायायायायायायायायायाया	रक्षेपार्थयात्रायासी सुन्धः सुन्धरभ्रेषार्भः। गायः सेषार्थ।		क्षेत्रयान्त्रयार्जेन्द्रीयका (नृष्ठीयका नृत कैन् अस्यार्जेन्द्रायाः अयाकायः)
ब्रेतुमार्डमा त्रञ्जेय।	क्षेतुःयाठेया त्येत्य।		त्व न्द्रवास्य व्यष्टम् (क्रूटरेष्ट्रर)
त्यःधेषा यो शुक्ष र्रहर्	क्रेन्श्वर-यो इस्य घाषावनः		कुंश सेन्यते कुंक धन्त्रश्चत्रुवर्क्षेत्रीर्धन्यासेन् (अन्त्यायेन्द्रवस्थाञ्च)
क्षेत्रे गर्मेत् क्षेत्र रेखा नद्देवः (धॅन/केते)	ाय धाया थी शुक्ष अर्दात्य दीयाकारा में या पत् कर्केट खेन्या के प्रचार प्रमे		<u>ક</u> ્રેપક્રમ્લ અમેવા મેં
	चक्रुखःम्बनःगु≌न्यदन्।यःधिम(स्पर्/सेर्)		क्वैप्तर्कत्त्रत्त्रदेवशकाकान्द्रस्य (वीरन्येवप्त्रक्ष्यक्ष्यक्ष
	धुनेयार्द्रमृक्षेत्रस्य ग्यद्देद् (स्पिन्सेन्)		ब्रुटरासुनेयान्दरशयास्तरा (यक्कुन्यस्य यार्नेतास)
		K 47	क्षुका ऊँदाग्धि माबि माबिक (त्यमान्येक तम्बन महममाँजिक)
र्रुंश खेद तवपुर्वे / यका क्षे खेद के (हु महा या किया चामा	1) रेंबावेबखेर्वासुत्राहरूयामीर्		र्टा स्वत्यवत्री/प्रकाकी सेव हे (इमारामाठी मामारा) रें का सेव स्वत्य समित
नक्षातक्षरमावदार्थेत्व विचन्धुन्धविश्वस्तरङ्गाकाः	Z		मक्षमक्रमवद्धिप्रदेश्वरम् । विमन्धुम्पदेशिरम्हम्बारा

			थमाहत् थमाक/ॐ<					
त्रचेःस्या ०७		য়ৢ৸৻ঌ৾৾৴ঀঀয়৾ড়৸ ৸য়৾য়ৣঀ৾৾ঀয়৸ঽয়৻৸ৼ৾৾য়৻য়য়৾য়য়য়য়য়য়য়৻য়৻ৼ৽৽৽৽৽৽৽৽৽৽৽৽৽৽৽৽৽৽৽৽৽	सुक्ष क्रिक्विय महान्यस्य ति ((प्रस्का क्रिक्विय सुक्ष प्रस्का स्थाप क्रिक्ट इत्स्याम्)				नक्षत्रक्रमावृद्धभूप	
3010		নিন্ধ উম ন্ম	र्भ स्ट्रिंग					
		र्क्टन्बियान्ड ।सम्ब्रीयात्रम	या या अस्य अस्य अस्य प्रमुख्या स्था					
			हुश स्वादा प्रज्ञानयाः प्रयोज्ञानः । ह्यास्त्रा					
	'ঐঘ <u> </u>		SHANDER SHANDER SHIP THE					
	बेच 'र्न्ड र्न्ज्य		त्येत्रकीत् रेखायोष् सेत्य					
	श्चेर या ५८ सम्बन्धः सुर्था की विषय मुध्य में मा विषय		त्येत्रक्तुः रेखायेष्					
	্ম-ঘচ্ম-শ্রে	'घे'धेमा'खर''	त्येत्रकीत् सायेत्यत्यासः					
	6840)	7.1. 7.11.	मञ्जूरा के माना कारा हेमाका / का हेमा का					
			७४२: कॉसॅडका'रेवाका युग्वप्रमुप्ता नुश्चमाणायायाये पञ्चार्यमाणायायाया वर्षेत्रक्ता वर्षेत्रक्ता वर्षेत्रकी कीपनुपा कार्षेत्रकी हेवाका/संहेवाका कार्षेत्रकी रेकायेक्षेत्र रेकायेक्षेत्र रेकायेक्षेत्र रेकायेक्षेत्र					
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अक्ष.र्क्टरावेच प्रधार में या			2070	वसःवियाः ०७
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			ষুষ্ধকণিপান্তিনী ক্রীমান্ত্রীয়ানী ক্রীমান্ত্রীয়ান্ত্রীয়ানী ক্রীমান্ত্রীয়ানী ক্রমান্ত্রীয়ানী ক্রমান্ত্রীয়া ক্রমান্ত্রীয়ানী ক্রমান্ত্রীযানী ক্রমান্ত্রীয়ানী ক্রমান্ত্রীয়ানী ক্রমান্ত্	
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मगुक्ष श्रेष 'त्यन्श्रे' निर्मे हिं हिं श्रेष क्रि	রার্মিয়ন দান স্ত্র জন	***************************************		
ই< ইরজেন ত্রান্তান ত্রান্তান তারান্তান দ্বান্তান দ্বান্তান তার করা দ্বান্তান দ্বান্তান তার করা দ্বান্তান করা দ	শুব্রাউন শেল		र्डर जेषा वर्षर रहि	
নম্বনের্বন্ধন্ধ (খীন)।	নমূল্যর্কিন (নদ্রথমনট্রদামাণ্ট্রাস্থননদ্রমা)) IG	रत्यवित्रश्चत्रस्थातुषास्	थ कुरुए न्या
न्त्रीयावायायायायायायायायायायायायायायायायायाय	न्सीयाना याना या थी. कुरता		श्वीर या फ्रायम निविष्यः	
ब्रेड्स्ट्र्नम्ब्रेचा प्रद्रोय।	ब्रेतुरक्त्रायाठेमा न्यत्राया		त्यार्चना'न्दर्देखासायदम्य'(खेन्/सेन्)	
त्य क्षेत्रम् मी श्रुष रह न	केदश्चरयी द्वेदारा मालह		मादरचन्द्रतक्षीयम्बद्गन्तः/दर्भे	
ુકેવળફેત્સુંક્ષ્ક્રમ્પાવદેતુ (પેમ્પ્રસિધ)	म्बध्यमने शुक्षकं दिनदीयात्राकायां हेवा पतः डाडेन्स्यन्यां स्वत्यक्षेत्रम्		યું ૧૮ કરા અલ્લા મેવા મે	
	धुनियार्द्राक्तुं नेंद्रानादेत (स्पन्/सन्)		क्षुश ऊँ नृष्टी माबि माब न् (त्यमा न्येद न्य ब म महुम प्पॅन् न्)	
र्रकायेष्ठात्वन्तर्वे/मकाक्षायोष्ठावे. र्रकायोष्ठायेष्ठाय्वायमित्रा	तर्घरःर्क्टाच्डक्षान्:	क्षेत्र क <u>्</u>	तर्घर.कॅ.इ.स्.चे.चे.चे.चे.चे.च	
घषअ'यक्रपालक्षेर्येत्व विघाद्यप्रसिवेशिराप्रहेमाथा ७	7		¥.	