	policies, processes and procedures for their		
	Calibration,		
	Maintenance, and		
	Monitoring.		
4.2	Selection, installation and validation of equipment		
	Blood Bank has a policy for selection, procurement, and		
	installation of the equipment.		
	Blood bank has		
	a) Installation qualification		
	b) Operational qualification		
	c) Performance qualification		
4.3	Use of equipment		
	Equipment is operated by authorized personnel		
	Up-to-date instructions for the use of equipment is		
	available		
	Maintenance plan as per the manufacturer is		
	available		
4.4	Equipment detail record, unique identification		
	Records of all equipment aremaintained		
	Equipments have unique identification numbers		
	which are displayed on the equipment		
4.5	Programme for calibration and maintenance of equ	ipment	
4.5.1	Blood bank has established and Implemented procedure		
	for regularly monitoring the following		
	Calibration of equipments		
	Function of instruments,		
	Reagents and		
	Analytical system.		
	Documented and recorded programme of preventive		
	maintenance as per the manufacturer's		
	recommendation is followed.		

4.5.2	There is a calibration plan as per the manufacturers	
	instructions and it complies with the legal requirements	
	Records of calibration are maintained	
4.5.3		
4.5.3	The calibration of equipment is traceable to	
	international / national measurement standards.	
4.5.4	The blood bank has procedures to investigate and	
	follow up of equipment malfunction, failure or adverse	
	event while working.	
	Equipment is marked in case of being out of order	
4.6	Equipment for storage of blood and component	
4.6.1	The blood Bank has detailed procedures for storage of	
	blood and blood components	
	There is adequate storage facility within the blood bank	
	(as per the quantum of work)	
4.6.2	Maintenance and recordingof proper temperature is	
	present.	
4.6.3	There is a documented process to monitor and record	
	the temperature of refrigerator, freezers, and platelet	
	incubators (at least every 8 hours. In case the	
	bloodbank is not monitoring the temperature	
	continuously the recording shall be at least at 4 hourly	
	intervals.	
4.6.4	The temperature of agitator is maintained at $22^{\circ}C \pm$	
7.0.7	2°C and recorded at least at 4 hourly intervals.	
4.7	Computer system	
7./	Computer system Computer software is validated	
	Access of computer is restricted to authorized	
	personnel only There is a decumented policy and procedure to	
	There is a documented policy and procedure to	
10	protect the integrity of data	
4.8	Breakdown of equipment	
	There is a documented procedure for repairing	
	and replacement of defective equipment	

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	There is appropriate labelling of equipment in		
	case of breakdown		
	Calibration of equipment before put in use is		
	ensured to meet specified acceptance criteria.		
	There is policy and procedure for appropriate		
	alternate storage where the blood/blood		
	components shall be shifted in the event of		
	breakdown of storage equipment.		
5.0	EXTERNAL SERVICES AND SUPPLIES		
5.1	The blood bank has policies and procedures		
	for selection of suppliers		
	foruse of purchased external services,		
	equipment and consumables that affect the		
	quality of its services.		
5.1.1	The blood bank has procedures and criteria for		
	inspection, acceptance/ rejection, and storage of		
	consumable materials.		
5.1.2	Purchased equipment and consumable supplies are not		
	used until they have been verified as complying with		
	standard specifications		
5.1.3	Cold chain is maintained for supplies and reagents at		
	the time of receipt (If required)		
5.1.4	Supplies and reagents are stored at proper		
	temperature(as defined by the manufacturer) in a safe		
	and hygienic place in a proper manner.		
5.1.6	Inventory Management system -Supplies and reagents		
	that do not bear an expirydate used in a manner that		
	those received first are used first.		
5.1.7	Supplies and reagent are used in a manner consistent		
	with instructions provided by the manufacturer.		
5.1.8	There is a procedure for examination of blood		
	collecting containersvisually for damage or evidence of		
	contamination prior to use.		
5.2	Inventory control		
5.2.1	Availability of procedure for inventory control for		
L	I and the second		<u> </u>

	Supplies	
	External services	
	Purchase product	
5.2.2	Records of supplies and purchased product is	
	maintained	
	Recording includes :	
	a. lot number of all relevant reagents, control	
	materials and calibrators,	
	b. Date of receipt in the blood bank	
	c. Date the material was placed in service.	
5.3	Evaluation of suppliers	
	There is a documented procedure for	
	evaluation of suppliers	
	Records for these evaluation are maintained	
	List of approved suppliers is maintained	
6	PROCESS CONTROL	
	(Depending on scope of the blood bank)	
6.1	PROCESS CONTROL	
	The blood Bank has	
	Policies and validated processes and procedures that	
	ensure quality of blood ,components and services	
	For each critical step mechanism tracking system for	
	performer and time details are available	
6.1.1	There is a procedure for	
	traceability of blood/ component unit and sample	
	from blood collection to issue	
	Identification of a recipient of a transfusion of	
	blood from a donor who is subsequently found to	
	have been infected with transfusion transmitted	
	infection.	
	Record of such events	
	In case in-house procedures are used, the following	
	are done	
	Appropriate validation of procedure Documentation	

	of results of validation and	
	procedure used for validation	
6.1.2	Standard procedures	
	National guidelines/manuals/regulatory	
	directives/peer reviewed	
	text/journals/authorized textbooks/international	
	guidelines followed for the standard	
	procedures	
	All procedures are documented and meet the	
	needs of the users	
	Available at the workstation for relevant staff.	
	Documented procedures and necessary	
	instructions are available in a language	
	commonly understood by the staff in blood	
	bank	
6.2	Donor Section	1
6.2.1	Blood donation	
6.2.1.1	There is a documented policy , process and procedure	
	for	
	Donor recruitment	
	Retention and Recall	
	Retaining adequate number of repeat donors.	
	Education of donors prior to collection of blood	
	regarding the risk factors of transfusion	
	transmitted infections.	
6.2.1.2	Pre-donation counseling	1

	Pre-donation counselingis done by trained staff which		
	may include		
	Modes of transmission due to risk behaviour and		
	self-exclusion for patient/ recipient's safety		
	Information about alternative testing site		
	Test carried out on donated blood		
	Confidentiality of test results,		
	Need for honest answers in view of window period.		
	Information for Confidential Unit Exclusion		
6.2.1.3	Donor registration, consent and selection		
0.2.1.5	a) Donor registration		
	A questionnaire in English and local languages is		
	available which is to be filled in by the donor.		
	Assistance is given by donor registration staff.(For		
	donors who are illiterate)		
	,		
	Medical officer with minimum MBBS qualification		
	shall be responsible for reviewing the donor's		
	health conditions and physical examination of the .		
	donor.		
	Demographic details which include date and time		
	of donor selection and donation are registered.		
	b) Consent		
	There is a documented procedure for taking		
	consent which includes details of		
	Contents of the consent		
	Written consent to transfer excess blood to		
	another blood bank or excess plasma for		
	fractionation		
	11 actionation		
	s) Critaria for coloction/doformal of donors		
	c) Criteria for selection/deferral of donors		
	d) Donation interval for		

	Whole blood	
	Interval between two plateletpheresis	
	Interval between plateletpheresis and whole	
	blood donation	
	Double red cell collection	
6.2.1.4	Phlebotomy Procedure	
	There is a documented procedure for phlebotomy	
	including	
	Method of preparation of Phlebotomy site	
	Equipments and blood bag	
	Anticoagulant solutions	
	Additive solutions	
	Volume	
	Duration of blood collection	
6.2.1.5	Post donation care	
	There is a documented procedure for post donation care which includes	
	Advice regarding post-phlebotomy care to	
	donor and the possible adverse reactions	
	Proper display of the same at blood	
	collection/observation room	
6.2.1.6	Adverse donor reaction management	
	For adverse donor reaction ,the blood bank has Availability of necessary drugs and equipment	
	available for treatment of donor reaction, if any.	
	Training in identification and management of	
	various donor reactions	
	Periodically checking of emergency tray to	
	remove expired medicines.	
	Procedure for donor referral and donor	
	transport in case of a serious adverse reaction.	
6.2.1.7	Blood donation camp/ drives	<u> </u>
	There is a procedure for organizing blood donation	
	camp including procedure for	
	Inspection of the camp site prior to the day of	
	blood donation camp	

6.2.1.8	There is a documented procedure for autologous blood
	collection including
	Predeposit criteria for Autologous donation
	Testing of units
	Labelling required
	Pre-transfusion testing
	Perioperative procedure and
	Post operative procures
6.2.1.9	Donor notification of abnormal findings, test results and counseling
	Information of test results
	There is a procedure for the medical officer of the
	blood bank to inform the donor about any sero –
	reactive result of TTI with prior written consent and
	counseling as per existing regulation
	Donor Notification (Counseling and referral)
	The blood bank has a procedure for
	Pre and Post donation counseling
	Recallof reactive HIV donors for re-testing.
	Referral of Sero reactivedonors to the Integrated
	Counseling and Testing Centre (ICTC) for
	counseling and confirmation of result
	Records of donor notification shall be available.
6.2.1.10	Records of donor and donor's blood/ components
	The Blood bank has processes and procedures for maintaining
	Donor records
	Donor deferral records
	Donors' blood collection records
	Donor adverse reaction records
	Blood component records
	Record of processing of donor's blood
	TTI Testing
	Records of apheresis procedure
	Records of all blood/ components discarded
	Records of autoclaving of reactive
ı	

	units/untested units		
6.2.1.11	Therapeutic plasmapheresis and cytapheresis	1	
	The blood bank has a documented procedure for Therapeutic plasmapheresis/ cytapheresis		
	Records of patient/ recipient's identification,		
	diagnosis, therapeutic procedures,		
	haemapheresis method, volume of blood		
	removed and returned, time taken, nature and		
	volume of replacement fluids, adverse reaction		
	if any and medication administered, are		
	maintained.		
	Informed consent of the patient/ recipient are		
	taken in the language he/ she understands.		
	Therapeutic Phlebotomy	-	
	There is a documented procedure for therapeutic		
	phlebotomy		
6.2.2	Handling of samples and blood units	L L	
	There is a documented procedure for collecting		
	samples for laboratory tests		
	There are procedures and processes for		
	identification and traceability of blood		
	Blood unit identification		
	Recipient records identification and traceability to donor		
6.2.2.3	Transportation		
	There is a documented procedure for		
	transportation of blood and blood component		
	and record of temperature monitoring during		
	transport		
6.3	Common the boundary		
6.3	Component Laboratory The blood bank has a documented procedure for		
	preparation of components		
6.4	Quarantine and Storage		
	The blood bank has procedure and process for		
	quarantine and storage of blood and blood components		
6.5	Labeling		
6.5.1	There is a documented procedure for labeling blood and		

	blood components		
6.5.2	Instructions for transfusion		
0.0.12	Instructions for transfusion areprinted on the label on the blood bag		
6.5.3	The component label has all required mandatory information The label shall contain information to identify the facility that carries out any part of the		
6.6	Testing of Donated Blood		
	There is a documented procedure for testing all the mandatory and other tests of donated blood		
6.7	Compatibility Testing		
	Request for blood and its components Sample receiving, acceptance and rejection criteria preservation Blood samples of recipient Retaining and storing segment of each donor Pre-transfusion testing repeat testing of donor blood Issue of blood and its component Re-issue of blood/ blood component after issue from the blood bank issueof blood/ blood component in case of urgent requirement Selection of blood and components for transfusion massive Transfusion Neonates transfusion and exchange transfusion Records of recipient maintained by the blood bank		
	Transfusion related advice (for clinicians):	,	
	The blood bank has regular interaction to educate the		
	users regarding transfusion related advices and other		
	scientific matters		
6.7.6.1	Informed consent		
	There is a procedure for informed consent which		
	includes informing the patient/ recipient about		
	his/ her need for blood		
	Alternatives available		
	Risks involved in transfusion and non-		
<u> </u>			

	transfusion.	
	Need for Written consent in language he/ she	
	understands	
	informed consent in case of minors and	
	unconscious patient/recipient	
6.7.6.2	Identification of recipient and donor unit	
	There is a documented procedure for identification of recipient and donor unit	
6.7.6.3	Supervision	
	Transfusion is given under medical supervision.	
	The transfusionist observes the patient/ recipient	
	for an appropriate time at the initial stage and	
	during the transfusion to observe any evidence of	
	untoward reaction and to regulate the speed of	
	transfusion.	
	user hospital has a hospital transfusion	
	committee.	
6.7.6.4	Administration of blood and blood components	 •
	A documented procedure for administration of blood and blood components is available	
6765		
6.7.6.5	Guidelines for transfusion practices The blood bank has guidelines for transfusion	
	practices including	
	Written protocol for administration of blood and	
	blood components.	
	Procedure for correct patient identification using	
	two independent identifiers.	
	Training of Staff for Transfusion: Ward staff,	
	Technicians and other hospital staff involved in the	
	transfusion process	
	Competency assessment after training	
	Approved guidelines by the Hospital Transfusion	
	Committee (HTC) for appropriate use of blood and	
	components	
6.7.6.6	Special considerations for use of components	

	There is documented instruction for use of component		
	which includes		
	ABO and Rh compatibility		
	Temperature of blood and blood component		
	before transfusion		
	Time taken for transfusion		
	Storage of component after issuing blood from		
	blood bank		
6.8	Transfusion Reaction and Evaluation		
	There are policies, processes and procedures for		
	error prevention in transfusion		
	There is a procedure for detection , reporting and		
	evaluation of transfusion reaction		
6.9	Documentation in Transfusion Service	l l	
	Regular reports are submitted to respective authority as per the requirement of the state. Records of transfusion reaction and its evaluation		
	and reason of transfusion reaction are maintained		
	Transfusion reactions are reported to the hospital transfusion committee.		
6.10	Histocompatibility Testing		
	The process and procedure for Histocompatibility		
	testing is available including		
	Terminology of HLA antigens conformance to the		
	nomenclature adopted by the World Health		
	Organisation.		
	Equipment for HLA typing reagents, HLA typing,		
	compatibility testing, sample identification, HLA		
	antibody detection, lymphocytotoxicity cross		
	match,		
	Pretransfusion transplant and records.		
	Participation in an EQAS program.		
6.11	Quality Control		
	There is a documented procedure for running		
	quality control of		

	c. Anti-human globulin reagent			
	d. Bovine serum albumin			
	e. Enzyme reagents			
	f. Hepatitis B Surface Antigen, anti-HCV and anti-			
	HIV 1 & 2 test and syphilis			
	g. Normal saline and buffered solutions			
	h. Blood component			
	There is a Quality control plan including			
	Root cause analysis , Corrective and preventive			
	action in case of outliers			
6.12	Proficiency Testing Programme			
	The procedure for PPT program includes			
	Participation in External Quality Assurance Scheme			
	(EQAS)/ Proficiency Testing Programme (PT).			
	Corrective action for Non conformance			
	when control criteria are not fulfilled and record			
	keeping			
6.13	Bio-medical waste disposal and laboratory safety in	n blood bank/ b	plood centre	
6.13	Bio-medical waste disposal and laboratory safety in The blood bank has a procedure for Biomedical	n blood bank/ b	plood centre	
6.13	Bio-medical waste disposal and laboratory safety in The blood bank has a procedure for Biomedical waste management including biomedical waste	n blood bank/ b	plood centre	
6.13	Bio-medical waste disposal and laboratory safety in The blood bank has a procedure for Biomedical waste management including biomedical waste segregation, transportation and disposal as per the	n blood bank/ b	plood centre	
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6.13	Bio-medical waste disposal and laboratory safety in The blood bank has a procedure for Biomedical waste management including biomedical waste segregation, transportation and disposal as per the bio-medical waste management prophylaxis as per guidelines of regulatory authority.	n blood bank/ b	plood centre	
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	There is a Procedure to analyse the nonconformity	
	and take corrective and preventive action	
	Records of detection of Non conformity, root	
	cause analysis, corrective and preventive action	
	taken by the blood bank are maintained	
7.2	There are documented procedures for release of	
	non-conforming blood component	
	Record for release of non-conforming blood	
	component is maintained	
8.0	PERFORMANCE IMPROVEMENT	
8.1	Addressing complaints	
0.1	Blood bank has a policy for addressing complaints, or	
	other feedback received from donors, clinicians, blood	
	camp organizers or other individuals/ organizations	
	Procedure for capturing feedback from donors, patients	
	and Clinicians is available	
	Record of complaints, investigations and corrective	
	actions taken.are maintained	
	(Complaints may be verbal or written)	
8.2	Corrective action	
	Blood Bank has process of investigation to	
	determine root cause of the problem and	
	Procedure for corrective action	
	Documentation of corrective action with root cause	
	analysis is maintained	
8.3	Preventive action	
	Procedure for Preventive action, implementation	
	and monitoring to reduce occurrence of non-	
	conformities is available	
	The follow up for its effectiveness is done and	
	records maintained	
8.4	Continuous quality improvement	
	The blood bank has a process to identify, collect and	
	evaluate quality indicator data .	
	The blood bank has Enrolled in in National	
	Haamaviailanea Dragram of India, for adverse dense	
	Haemovigilance Program of India: for adverse donor	

	reactions and adverse transfusion reactions			
9.0	DOCUMENT CONTROL			
	There is a documented procedure for document			
	control and review of documents			
	Documents are reviewed and approved by			
	authorized personnel prior to issue.			
	Master list of documents is maintained			
	Only currently authorized versions of appropriate			
	documents are available for active use at relevant			
	locations.			
	Documents are periodically reviewed, revised when			
	necessary, and approved by authorized personnel.			
	Invalid or obsolete documents are removed from			
	all points of use			
	Maintenance of documents in computer software E	lectronic Recor	ds)	
	There is a documented procedure for changes to			
	documents maintained in computerized systems			
	including			
	Procedure for backup of all critical data.			
	Alternative method during system break down			
Procedures for data retrieval				
	Training of personnel			
	Validation of system, integrity and security of data			
	The records availability as per the requirement of			
	Drugs and Cosmetics Act 1940, 25th Edition 2016 (
	additionally be maintained as hard copies)			
10.0	RECORDS			
	There is a documented policy and procedure for			
	Record identification			
	Record Retention			
	Disposal			
	Procedure to trace any unit of blood/			
	component from its source to its final issue/			
	disposition by review of records.			
	List of records maintained by the blood bank			
11.0	INTERNAL AUDIT & MANAGEMENT REVIEW			

There is a documented procedure of internal audit which includes	
Person responsible for plan organizing and	
carrying out internal audit internal audit	
Frequency	
Methodologies and required documentation	
Internal audit is done within 12 months	
All elements of quality management system including	
managerial and technical are covered in internal audit	
once every twelve months.	
Appropriate corrective and/ or preventive actions	
documented and carried out within agreed time frame.	
Blood bank has Procedure for management review	
Agenda of management review covers all the	
required elements as per the standard	
requirements	
Record of internal audit and management review	

NOTES:

