BLOOD BANK INSPECTION CHECKLIST AND REPORT

Date of Inspection:	Name & Address of Blood Bank:
Names of Inspecting Officers:	
	Fax No.
	Tel. No.
	E mail:
LEVEL	Constitution of the firm (Name of Director/ Partners /
State Capital - S Medical College - M	Proprietors etc.)
District - D Taluk - T	
CONTROL	Medical Officer In charge
Central Govt C Public Sector	
State Govt S Undertaking - PSU	Licensed: (Y/N)
Public Chari Private	License No.
table Trust - CT Commercial - PC	
Private Voluntary	Valid up to:
Hospital - PH Organisation - V	Grant:
TECHNICAL STAFF	Applied for Grant / Licensed for
Medical Officer :	1. Whole Human Blood IP
Registered Nurse :	2. Preparation of Blood Components:
Blood Bank Technician :	a. Packed Red Cells IP b. Washed Cells
Technical Supervisor :	c. Fresh Frozen Plasma BP d. Pooled Plasma
Social Workers :	
Attendants :	
Others :	g. Platelets Rich Conc. Plasma
	h. Granulocyte Conc. i. Cryoprecipitate

WORK LOAD FOR PAST TWO YEARS

COLLECTION	200	200	DISPOSITION	200	200
Voluntary			Used in their Hospital	Used in their Hospital	
Replacement			Issued Outside		
Total			Discarded		
			Total		
Frequency of Reporting			Details of Discarded Blood		
Monthly	M		HBsAg +		
Quarterly	Q		HIV +		
Half Yearly	Н		HCV +		
Annually	A		VDRL +		
Reported To:			Date Expired		
			Insufficient Volume		
			Haemolysed		

ROUTINE TECHNIQUES USED FOR TESTS

Cell Gro	ouping	Serum Gro	uping	Rh (D)	Grouping				
Slide	D	Slide	D	Slide			D	Albumin-	A
Tile	I	Tile	I	Modifie	d tube		M	Enzyme-	Z
Tube	В	Tube	В	Du test	for Confirmation	on of D –ve	Du	Combs-	С
				Perform	ed on all case?	(Y/N)			
Cross M	atching			HBsAg		HCV		HIV Testi	ng
Slide	-D	Albumin	-A	Elisa	-E	Elisa	-P	Elisa	-E
Tile	-B	Enzyme	-Z	Rapid	-R	Rapid	-R	W.Blot	-W
Saline	-S	Coombs	-C	Others	-O	Others	-O	Rapid	-R
								Others	-O
Unexpected antibodies									

GENERAL EQUIPMENTS AND INSTRUMENTS

DETAILS OF EQUIPMENTS/INSTRUMENTS	OBSERVATIONS	REMARKS
1. Refrigerators for storing separately tested and untested	Yes/No	
blood		
For tested Blood	Yes/No	
a) Capacity: b) Make:		
For Untested Blood	Yes/No	
a) Capacity: b) Make:		
Whether Thermograph provided	Yes/No	
Whether Alarm device provided	Yes/No	
Whether digital dial Thermometer provided	Yes/No	
2. Weighing device for blood containers	Yes/No	
3. Autoclave with temperature and pressure indicator	Yes/No	
4. Stand by generator	Yes/No	

LABORATORY EQUIPMENTS

DETAILS OF LABORATORY EQUIPMENTS	OBSERVATIONS	REMARKS
Refrigerator for kits & reagent storage	Yes/No	
a) Capacity: b) Make:		
Whether digital dial thermometer provided	Yes/No	
2. Compond microscope with low & high power objectives	Yes/No	
3. Centrifuge – Table Model	Yes/No	
4. Water bath between 37°C to 56°C	Yes/No	
5 Rh. Viewing box in case of slide technique	Yes/No	
6. Incubator with thermostatic control	Yes/No	
7. Mechanical shakers for serological tests for syphilis	Yes/No	
8. Hand lens	Yes/No	
9. Serological graduated pipettes of various sizes	Yes/No	
10. Pipettes (Pasteur)	Yes/No	
11. Glass slides	Yes/No	
12. Test tubes of various sizes/micrometer plates (U or V type)	Yes/No	
13. Precipitating tubes 6 x 50mm of different sizes & glass	Yes/No	
beakers of different sizes		
14. Test tubes rack	Yes/No	
15. Interval timer	Yes/No	
16. Equipment & materials for cleaning glassware's	Yes/No	
17. Insulated containers for transporting blood between 2°C to	Yes/No	
10°C		
18. Wash bottles	Yes/No	
19. Filter papers	Yes/No	
20. Dielectric tube sealer	Yes/No	
21. Plain and EDTA vials	Yes/No	
22. Chemical balance	Yes/No	
23. Elisa reader with printer, washer and micropipettes	Yes/No	
24. Colorimeter for hemoglobin determination	Yes/No	
25. Blood Agitator cum Weighing device	Yes/No	

EQUIPMENT FOR COMPONENT PREPARATION

DETAILS OF EQUIPMENTS	OBSERVATIONS	REMARKS
1. LAF Bench	Yes / No	
2. Refrigerated Centrifuge	Yes / No	
3. Plasma Expresser	Yes / No	
4. Clipper and Clips and / or dielectric sealer	Yes / No	
5. Weighing device	Yes / No	
6. Dry rubber balancing material	Yes / No	
7. Artery forceps, Scissors	Yes / No	
8. Refrigerators	Yes / No	
a. Capacity: b. Make		
Whether Thermograph provided?	Yes / No	
Whether Alarm device provided?	Yes / No	
Whether digital dial thermometer provided?	Yes / No	
9. Platelet agitator with incubator	Yes / No	
10. Deep freezer (-30° C to -40° C)	Yes / No	
11. Deep freezer (-75 C to -80 C)	Yes / No	
12. Refrigerated water bath for plasma thawing	Yes / No	
13. Appropriate insulated blood bag containers for transport	Yes / No	
purposes		
14. Air conditioner for the preparation room	Yes / No	
15. Storage equipments for Granulocyte Conc. (20 C to 24	Yes / No	
(C)		
16. Blood bags used for component separation	Single/Double/Triple	
17. Specify additive solution used for RBC preservation		

<u>CENTRAL DRUGS STANDARD CONTROL ORGANISATION</u> <u>FORMAT OF INSPECTION REPORT FOR WHB & COMPONENTS</u>

Naı	ne & Address of Blood Bank:		Inspecting Officers:	
Lice	ence No:		Date of Inspection:	
	GENETAL:			
1.	Location and surroundings: (Brief description	to be giv	<u>ven)</u>	
	Is away from open sewage, drain, public Lavatory and other unhygienic surroundings?			
2.	Building:			
	Is construction suitable for maintaining hygienic Is entry of insects, flies and rodents avoided by p Is lighted and ventilated? Are walls, floors and ceilings are smooth and wa	oroper me		
3.	Health, Clothing and Sanitation of Staff:			
	Are employees free from contagious / infectious Are employees provided with clean overall, head Are adequate and clean hand washing and toilet	lgears, foo	ot wears and gloves?	
В.	ACCOMODATION FOR BLOOD BANK OP	ERATIO	NS:	
	ROOM		DIMENSIONS (in Mtrs.)	AREA (Sq. Mtrs.)
1.	Registration & Medical Examination .			,
2.	Blood collection (A/C)			
3.	Laboratory for blood group serology (A/C)			
4.	Laboratory for blood transmissible diseases (A/	C) .		
5.	Sterilization- cum – washing			
6.	Refreshment-cum-rest room (A/C)			
7.	Stores/Records room			
8.	Blood components room (A/C)			
9.	Total Area for Operations:			

C. PERSONNEL:

Are the following whole time technical staff provided					
a) Medical officer's name:	Qualification:	Experience: (as regular ser at (Name of BB)			
b) Registered Nurse:	Qualification:	Reg.No:	Nursing Council		
c) Blood Bank Technicians:	Qualification:	Institute:	Experience		
d) Technical Supervisor (Components)	Qualifications:		Experience:		
e) Record of change of Competent Tec	hnical Staff with da	ites:			
f) The changes of Competent Technical Staff reported vide their letter No. Dt					
D. MAINTENANCE:					
Privacy for medical examination of a Blood collection area excluded from activities to avoid risk of contaminate.	other		Yes/No Yes/No		

Privacy for medical examination of donor	Yes/No
2. Blood collection area excluded from other	Yes/No
activities to avoid risk of contamination	
3. Separates storage facility for untested blood/component	Yes/No
4. Quarantine facility for units awaiting retest	Yes/No
5. Is adequate quarantine facility provided for rejected	
units/ materials awaiting disposal	Yes/No
6. Storage of finished products prior to distribution or issue	Yes/No
7. Premises area maintained hygienically to prevent contamination	Yes/No
8. Blood / components found unsuitable for use and other Biomedical	
wastes (Management and Handling) Rules 1998.	Yes/No

E. EQUIPMENTS:

Whether the cleanliness & maintenance of all equipments adequate Yes/No

Whether equipment calibration/standardization carried out at the following frequencies:

EQUPMENT	PERFORMANCE	FREQUENCY OF CALIBARATION	OBSERVATIONS
1. Temperature recorder	Compare against thermometer	Daily	
2. Refrigerated centrifuge	Observe speed & temperature	Each day of use	
3. Hematocrit centrifuge	Speed	Standardize before initial use, after repair or adjustments & annually.	
4. General Lab. Centrifuge	Speed	Tachometer. Every 6 months	
5. Automated Blood typing	Observe with controls for correct results	Each day of use	
6. Hemoglobinometer	Standardize against cyanomethomoglobine	Each day of use	
7. Refractometer or Urinometer	Standardize against distilled water	Each day of use	
8. Blood container weighing device	Standardize against Known weight	Each day of use	
9. Water bath	Observe temp.	Each day of use	
10.Rh view box	Observe temp.	Each day of use	
11.Autoclave			
12. Serologic Rotator	Compare with controls		
13. Laboratory Thermometer		Before initial use	
14. Electronic Thermometer		Monthly	
15.Blood agitator		Each day of use.	

F. REAGENTS AND SUPPLIES:

- a) Are all reagents and supplies stored at proper temperature in a safe and hygienic place and in a proper manner? Yes/No
- b) Are all reagents and supplies used within their expiry date?

Yes/No

c) Are samples of the following reagents tested to assess their quality?

REAGENTS AND SOLUTIONS	FREQUENCY OF TESTING	OBSERVATION
	ALONG WITH CONTROLS	
1. Anti-human serum	Each day of use	
2. Blood grouping serums	Each day of use	
3. Lectin	Each day of use	
4. Antibody screening and reverse	Each day of use	
grouping cells		
5. Hepatitis test reagents	Each day of use	
6. Syphilis serology reagents	Each day of use	
7. Enzymes	Each day of use	
8. HIV I and II reagents	Each day of use	
9. Normal Saline	Each day of use	
10. Bovine albumin	Each day of use	

G. GOOD MANUFACTURING PRACTICES (GMPs) STANDARD OPERATING PRACTICES (SOPs)

1. Is written standard operating procedures maintained	Yes/No
Does the SOPs include the following?	
a) Criteria to determine donor suitability	Yes/No
b) Methods of performing donor qualifying test	Yes/No
c) Methods of relating the product to the donor	Yes/No
d) Blood collection procedure with precautions to accurately measure	
the qty. of blood collected	Yes/No
e) Methods of component preparation	Yes/No
f) Tests performed on blood & blood products during processing	Yes/No
g) Pre-transfusion testing	Yes/No
h) Procedures of managing adverse reactions	Yes/No
i) Storage temp. and methods of controlling storage temp.	Yes/No
j) Expiry date of all final products	Yes/No
k) Criteria for accepting returned blood	Yes/No
l) Quality control procedure for supplies and reagents	Yes/No
m) Schedules and procedures for equipment maintenance and calibration	Yes/No
n) Labeling procedures	Yes/No
o) Procedures for plasma/platelet/ leucophersis	Yes/No
p) Procedures for preparing recovered plasma	Yes/No
q) Procedures for review of records	Yes/No

H. CRITERIA FOR BLOOD DONATION:

Whether disposable needles or lancets are used for specimen collection:

Yes/No

1. Do they have a proper donor registration card?

Yes/No

Whether the following examination is carried out in each donor before phlebotomy and recorded.

a. Age (18 to 60)
b. Weight (not less than 45 kgs)
c. Temperature and pulse
d. Blood pressure
e. Heamoglobin (not less than 12.5g) -

e. Heamoglobin (not less than 12.5g) – : indicate the test methods

f. Respiratory diseasesg. Skin diseases at the site of phlebotomyh. Past medical history of TTD.

i. Precautionary observation to avoid professional donor

2. Does the donor card specify the following conditions for deferment of blood donation along with the period of deferment?

Abortions	6 months
History of blood transfusion	6 months
Surgery	12 months
Typhoid	12 months after recovery
History of malaria and duly treated	3 months (endemic)
	3 years (non-endemic area)
Tattoo	6 months
Breast feeding	12months after delivery
Immunization	15 days
Rabies vaccination	1 year
History of hepatitis	12 months
Immunoglobulin	12 months

Does the donor card specify the following conditions for rejection of blood donation

Cancer Heart disease

Abnormal bleeding tendencies Unexplained weight loss Diabetes controlled on insulin Hepatitis B infection

Chronic nephritis Sign & symptoms suggestive of AIDS

Liver disease Tuberculosis
Polycythemia Vera Asthma
Epilepsy Leprosy

Schizophrenia Endocrine disorders

I.	a)	COLLECTION OF BLOOD	:	
	1.	Preparation of phlebotomy site	:	
	2.	Type of Anticoagulant used	:	
	3.	Amount of Anticoagulant used	:	
	4.	Amount of blood collected	:	
	5.	Blood collected in bags/ bottles	:	
	6.	Whether smaller blood bags are used for pediatric purposes?	:	
	7.	Whether manufacture's test report available for the batch of CPDA solution used	le :	
		Whether proper mixing of blood and Anticoagulant done during collection?	:	
	9.	Whether disposable needles and sets are us	sed? :	
	10.	If a second puncture is required is a new disposable set used?	:	
	11.	How are the sample tubes labeled?	:	
	12.	Whether emergency drug kit available as page 1 (5) of Schedule F?	per :	
	b)	STORAGE:		
	1.	Blood storage refrigerators available i) Make: ii) Make:	: Capacity : Capacity :	
	2.	Whether recorded thermographs preserve		
	3.	Do they check alarm system off & on who		
	4.	temperature deviation or failure of power How do they transport the blood?	supply? :	
		a. To hospital wards	:	
	5	b. To outside hospital/ blood b		
	5.	Do they reuse the returned bottle of blood If yes give details		
	6.	Storing of blood components a. FFP b. CRP c. PLATELETS d. RED CELL CONC	Temperature	Duration / Expiry period

7. Whether donor & patient's blood samples preserved for 7 days post transfusion?

J. **DONOR BLOOD TESTING:**

- 1. Whether collected blood is tested for sterility as per I.P
- Frequency/ percentage of sterility testing.
- Whether Hb estimation is carried out on collected blood as per I.P 3.
- Method used for ABO Grouping—Slide /Tube/Others (Specify)
- Grouping done on Cells /Serum/Both
- Method adopted for preparation of pooled cells.
- Whether Du test is carried out on D negative blood.
- Whether test for unexpected antibodies carried out.
- 9. Do they inform donor of any positive results?
- 10. Is the donor debarred permanently if he is HbsAg /HIV positive.
- 11. Do they follow up HbsAg/HIV positive donors?
- 12. Methods and kits used for testing:

Name of test	KIT Manufacturer	Brand Name
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- A) VDRL
- B) **HbSAg**
- C) HIV 1&2
- D) HCV
- E) HBC

K. a) PATIENTS PRETRANSFUSION TESTS:

- 1. Is there proper requisition form in use?
- 2. Do they test for Auto- agglutinins? If so what is the procedure followed:
- 3. Do they carry out antibody detection test?
- 4 Are the red cells sensitized with IgG

Used as controls for AGT? Slide/ Tube method

- 5. What method for cross matching
 - a. Major /Minor
 - b. Saline / Enzyme / Albumin /AGT
 - c. Do they use AGT for all cases?

If not, specify where used?

b) QUALITY CONTROL:

- 1. Do they have a hospital transfusion committee to review procedures?
- 2. Do they carry out personnel proficiency test?
- 3. Are the staff encouraged to attend courses / seminars/ conferences?
- 4. Whether every batch of reagents procured are tested initially before use.

TRANSFUSION COMPLICATIONS: c)

- 1. Does the Lab. Manual describe the tests done in case of HTR?
- 2. Do they have transfusion records which

accompany the blood bags when issued?

I. RECORD AND REPORTS:

1. Do they have records of the following activities?

a) Blood donor record :

b) Master records for blood and components :

c) Issue register :

d) Components issue register :

e) Records of blood bags

f) Register for diagnostic kits and reagents :

g) Copies of cross matching reports issued to

Patients : h) Adverse reaction records : :

i) Stock register for all other consumables

2. How long the records are maintained? :

M. LABELLING:

Whether labels of blood containers comply with

Schedule F and I.P

N. OBSERVATIONS, IRREGULARITIES AND RECOMMENDATIONS: