

Government of India Ministry of Fisheries, Animal Husbandry and Dairying Department of Animal Husbandry and Dairying





Guidelines of CPCSEA for Reuse/ Rehabilitation of Large Animals post experimentation 2020







Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA)

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GUIDELINES OF CPCSEA FOR REHABILITATION/ REUSE OF LARGE ANIMALS POST-EXPERIMENTATION – 2020

[In conjunction with "Breeding of and Experiments on Animals (Control and Supervision) Amendment Rules 2006, Section 9 (cc)]

These guidelines have been prepared to operationalise the rules amended in 2006, Section 9 (cc) for Rehab and Reuse of large animals:

A. Definitions:

- (i) Large Animals: Animals above the phylogenetic level of rodents and lagomorpha are defined as large animals covered under the regulation of CPCSEA.
- (ii) Reuse: "Reuse" of laboratory animals is a term used where in, after completion of an experiment (experiment as defined in Breeding of and Experiments on Animals (Control and Supervision) Rules 1998 and as amended in 2001 and 2006) an animal is used again after a washout period, in the same or a different protocol, where an unused animal would have equally sufficed to meet the objectives of the second/or subsequent use.
- (iii) Rehabilitation: Rehabilitation of the large animals (mentioned in point C-ii) is defined as "the aftercare rendered to animals that have been (i) bred for the purpose of experimentation (ii) subject to any form of experimentation (iii) retained in animal houses or breeding houses for the purpose of experimentation, for education, research and commercial purpose, with the sole intention of alleviating the pain/distress or suffering due to the physical, physiological and psychological trauma that the animals have been exposed to and to provide the animal a life distinctly different from laboratory housing and care, until the point of natural death".

B. Reuse of animals in experiments:

The CPCSEA's consent for reuse would be generally conditional upon the animal having suffered no significant adverse effects as a consequence of the first use, and the animal not having been subjected to any intervention which compromises its welfare and suitability on scientific terms, as a subject for the second or subsequent use. The CPCSEA reserves its right to make a decision on matters of reuse.

In case of dogs, any and all reuse of a dog after the completion of its use in an approved experimental protocol, must be further authorized/approved by the CPCSEA for each individual animal, limiting their reuse/stay in laboratory housing to a maximum period of 3 years. Hence all reuse within the 3 year period for studies/experiments, must be specifically authorized with a written consent of the CPCSEA. The CPCSEA's consent for reuse will be conditional upon the animal having suffered no significant adverse effects as a consequence of the first use, and the animal not having been subjected to any intervention which compromises its welfare or suitability in scientific terms, to be used as a subject for the second or subsequent use.

(i) Conditions for Reuse:

- 1. The reuse of animals in an approved study may be reconsidered for second/repeated use when it may serve as a way to reduce the number of animals used, without causing any incremental pain/distress to the animal which results from second/repeat use.
- 2. When considering subsequent use of experimental animals, the physical and psychological health and wellbeing of the animal must be considered.
- 3. Before seeking permission for reusing an animal, the health of the animal and the opinion of the veterinarian and consent of IAEC must be in order.
- 4. Health certificate for sound health and fitness of animals intended for reuse as per **Annexure-I** must be obtained and maintained at the establishment. The veterinarian should clearly certify that there has been no adverse effects, by way of the first experiment/caging and due to laboratory housing/procedures. Animals showing stereotypic behaviour, fear, freezing on human touch; genetic or physical defects; permanent implants, etc. should be declared unfit for reuse and recommended for proper rehabilitation.
- 5. The establishment must maintain records of reuse with detailed documentation up to a period of 10 years. Reusing animals as a reduction strategy can be promoted/ considered by the IAEC only with extreme caution taking into consideration the potential of increased quantum and duration of pain and distress to individual animals caused by reuse. The IAEC should closely monitor end points and determine the suffering of animals before recommending reuse.
- 6. In case of Dogs used in toxicity studies, the animal must be healthy and limit of use of individual dogs should be for a maximum period of 3 years for pharmacokinetic studies subject to the health status of the dog as reflected by the data maintained as per **Annexure 1**. If the dog(s) shows any liver or kidney impairment, within the three year period, the animal cannot be reused, even if within the 3 year period and must be rehabilitated with special care. Appropriate washout periods, with a minimum of three months, should be applied when studying the metabolism of a series of drugs to avoid confounding drug interactions and least physiological stress to the dog when repeatedly used within the 3 year period.
- 7. Dogs used in breeding may be limited to 5 whelping cycles and must be rehabilitated on completion of this. Dogs used in toxicity studies should not be used for breeding.
- 8. In the case of telemetry studies, dogs from which the device has been explanted should not be used to implant another second device. Appropriate washout periods, with a minimum of 3 months time period should be adhered to, when studying the impact of several drugs to avoid drug interactions and least physiological stress to the dog. Telemetered dogs may be used till as such time the dogs shows normal physiological functions (TPR, liver, kidney) or until the device is no more functional and limited to a maximum period of 3 years.

C. Rehabilitation of large animals post-experimentation:

- 1. It is the responsibility of establishment conducting experiments on large animals to maintain them post-experimentation till their natural death at its own rehabilitation facility. In case the establishment is unable to rehabilitate the animals in its own facility, it will be responsible to rehabilitate them at an AWO (Animal Welfare Organisation) registered with AWBI and/or Government approved/registered AWOs for the animal species being proposed. The undertaking for adoption shall be submitted by the establishment to the AWO (Annexure II) duly signed by the Head of the organisation, Principal Investigator and the CPCSEA Main Nominee.
- 2. The table below gives the minimum costs (exclusive of government taxes) for rehabilitation of large animals at the AWOs.

Species	Minimum cost per day per animal (in INR)
Dogs	60
Cat	40
Sheep/Goats	50
Cattle	200
Horse	200
Pony/Mule	100
Monkey	100
Pig	120

- 3. In conjunction with "Breeding of and Experiments on Animals (Control and Supervision) Amendment Rules 2006, Section 9 (cc)" a provision of an advance lump sum amount payable on monthly basis per animal as per above table needs to be transferred to AWO to meet the costs of rehabilitation. A 10% increase in the above cost should be added every year, in order to meet the cost index. This cost may be reviewed once in 5 years.
- 4. It will be the responsibility of the IAEC mainly CPCSEA Nominee to ensure (at least once in six months) that animals transferred with proper certification, permanent identification number/tag and a MoA (between the establishment and AWO) are kept under healthy conditions till their natural death. MoA should be duly signed by the Head of the establishments or any authorised representative.
- 5. Euthanasia, during rehabilitation, will only be permitted under any of the following conditions: (Euthanasia must always be carried out by administering overdose of Barbiturates).
- a. the animal is not able to perform its natural functions and left in pain & suffering.
- b. the animal encounters contagious/infectious diseases of zoonotic importance.

(Note: Ref. The Prevention and Control of Infectious and Contagious Disease in Animals Act 2009)

- 6. The health records of experimental animals shall be maintained at the establishment and AWO as per **Annexure-I.**
- 7. The information regarding the animals for rehabilitation (at establishment/ AWO)

should be made available to CPCSEA.

- 8. The animals used for routine nutritional studies and breeding experiments would be reused and utilised.
- 9. The animals used for challenge experiments if found fit after examination, may be included in the herd. For challenge study, the establishments can frame their own SOP.
- 10. The healthy and productive animals can also be given for adoption to the farmers, except for Cattle and its progenies.

(i) Rehabilitation through Adoption:

In case of non availability of registered AWOs for Sheep, Goat, Pig, Cat, Ponies and Mules, the animals may be adopted post experimentation. All the certificates and essential documents/records along with the undertaking has to be made available at the time of adoption. After adoption the animals should not be further sold.

The animals if given to AWO should not be sold. They can however, be given for adoption following due procedure like that of the establishments. The individuals adopting animals should never sell them further or give for adoption.

(ii) Rehabilitation in case of dogs:

Dogs that have completed the 3 year experimental term or if not permitted for reuse within the 3 year period should be promptly rehabilitated by the institute with information to the CPCSEA. In the case of dogs there is immense possibility to be adopted by families. This may be encouraged, after the animals have been spayed/castrated by the institute and adoptions facilitated through trustworthy Animal Welfare Organization/s (AWO/s), after due approval of CPCSEA. Members/representatives of the CPCSEA would be designated to liaise with establishments and ensure rehabilitation of the dogs not permitted for reuse and those whose 3 year experimental term is completed. Otherwise establishments should bear the costs of rehabilitation in their own facilities, until the natural death of the animal. AWOs may facilitate rehabilitation, if required by rehabilitator.

Annexure-I

DETAILS/ RECORDS TO BE MAINTAINED WHILE REUSING/REHABILITATING ANIMALS

I. Instructions for reuse and rehabilitation of experimental Animals

The establishment should maintain record of all animals pertaining to admissions, treatment, health, experimentation for the purpose of reuse and rehabilitation.

The details as per the following forms have to be maintained and made available at any time for inspection for at least 10 years post experimentation.

1. Pre-experimentation details of animal for reuse/rehabilitation:

Form is for maintaining records of animal's origin, treatment and tests performed during quarantine by the acquiring institution prior to experimentation signed by a veterinarian.

2. Experimentation details

Form is for maintaining records pertaining to animal experimentation to know the kind of material handled during experimentation and protocols followed signed by principal investigator.

3. Post-experimentation details of animal &suitability certification for reuse /rehabilitation

Form is for maintaining records of animals after performance of experimentation for its continuation either for reuse or for rehabilitation signed by veterinarian.

4. Transfer certificate for rehabilitation

Form is for certifying suitability for rehabilitation authorized by a veterinarian.

II. Following forms/records should be maintained for supportive information

- 1. General health condition and body weight
- 2. Menstrual cycle (Species specific)
- 3. Tuberculin testing (in case of cattle, buffaloes and non-human primates).
- 4. Johnin testing (in case of cattle and buffaloes)
- 5. Brucellosis testing (in case of cattle, buffaloes, sheep and goats)
- 6. Mallein testing/ CFT/PCR (in case of equines)
- 7. X–Ray
- 8. Parasitological examinations
- 9. Microbiological examinations and screening records for seronegativity required for testing.
- 10. Hematology and biochemical tests.
- 11. Treatment record
- 12. Surgery
- 13. Research and experimentation methods

14. Volume of blood drawn/collected

- III. These forms are to be filled only by designated persons and signed by competent authority (CA) or an officer appointed by CA for doing so.
- **IV.** As an archival policy of the establishment, these forms should be available in the animal facilities for at least 10 years for inspection and data preservation.
- V. Copies of the data pertaining to large animals at different phases need to be submitted to the IAEC for their review and the compiled data will be shared atleast once a year with CPCSEA along with information on acquiring source, completion of experiment and number of animal saved to meet objectives of 4R's.
- VI. As per the current CPCSEA regulations, permission for experimentation on large animals is granted by CPCSEA with recommendation of a central sub-committee constituted for this purpose. The recommendation should be routed through IAEC of the institute and it is important to mention the reference number of the approval in these forms.
- **VII.** Date of initiation and date of termination mentioned in the form is as per IAEC/CPCSEA approval.
- VIII. Forms such as post-mortem details and histopathology should be essentially maintained for all animals that have been sacrificed in experiments and/or died during rehabilitation.
- **IX.** A unique identification number is followed in all the forms for uniformity in every establishment. The animal number to be placed in the appropriate box in the form will be derived as follows:

Ι	Species:	
	01	Buffalo
	02	Cat
	03	Cattle
	04	Dog
	05	Donkey
	06	Goat
	07	Horse
	08	Monkey
	09	Mule
	10	Pig
	11	Pony
	12	Sheep
	13	Any other (Please specify)

II	Sex	
	M	Male
	F	Female
	N	Neuter
III	Year of Birth	
	97	1997
	01	2001
IV	Establishment's CPCSEA Regis	tration no.:
	159/GO/ReRcBi-S/ReRcBi-L/0	1/CPCSEA 159
	401/PO/Bi-S/ Bi-L/01/CPCSEA	
		401
V	Individual number as per the est	ablishment
	002	
	009	
	019	

Example:

Species	Gender	Year	Reg. No.	Individual No.
6	M	01	159	009

Provision of identity number/s for individual dogs

In order to facilitate and ensure humane limits in reuse as per CPCSEA guidelines it is imperative to assign a unique number to each animal by way of micro chips. The establishment should have this information/database for all dogs and which may be made available if required by CPCSEA. The establishment should update this information for each animal as and when an experiment is completed.

Pre-experimentation details of animal for Reuse /Rehabilitation

1. Name of the organization currently holding the animal/s

a. Animal No:		1	b. DOB	
c. Animals procure	ed / Trapped fron	n: (d. Date of procurem	ent / trapping
e. Supplier / Sourc			f. Colony bred / Wil	
g. Dam Number			h. Sire Number	
i. Colour	j. Date of Ind	uction	k. Body Weig	ht and Date
3. Physical exami	nation on arriva	ıl		
a. Fore Limbs			b. Hind limbs	
c. * Dental Formul	la: I C PM	M	d. Teeth condition	n
e. Eyes			f. Nostrils	
g. Mouth lesions it				
h. External Body (Coat		i. Abdominal pal	pation
j. Lymph nodes				
k. Chest auscultati			1. Body Tempera	ture
m. Any injuries ph		es		
n. Clinical Sympto				
o. Health condition	1			
4. Quarantine per	riod			
a. Introduced on		1 5 1		
Introduced off		b. Relea	ased from quarantine	e on
5. Microscopic exama. Fecal Examination b. Any Ectoparasites c. Parasites on Blood 6. Any treatment given	for Endo parasit	asites es	ased from quaranting	e on
5. Microscopic exama. Fecal Examination b. Any Ectoparasites c. Parasites on Blood 6. Any treatment gives	for Endo parasit smear examinat ven during quar	asites ees ion		
5. Microscopic exam a. Fecal Examination b. Any Ectoparasites c. Parasites on Blood	for Endo parasit smear examinat ven during quar	asites es	Treatment	Recovered on
5. Microscopic examination a. Fecal Examination b. Any Ectoparasites c. Parasites on Blood b. Any treatment given	for Endo parasit smear examinat ven during quar	asites ees ion		
5. Microscopic examination a. Fecal Examination b. Any Ectoparasites c. Parasites on Blood b. Any treatment given	for Endo parasit smear examinat ven during quar	asites ees ion		
. Microscopic examination . Fecal Examination . Any Ectoparasites . Parasites on Blood . Any treatment gives	for Endo parasit smear examinat ven during quar	asites ees ion		

_		1.	4 4 •
1/_	Liih	erculin	testing:
	- 4	or curren	CCSCIII_

Date	Source /Batch of Antigen	Result at each Observation		tion
		First (0h)	Second (48h)	Third (72 h)

O	Ta	L :	4004:
ð.	JU	nnın	testing:

Date	Source /Batch of Antigen	Result at each Observation		tion
		First (0h)	Second (48h)	Third (72 h)

9. Mallein testing:

Date	Source /Batch of Antigen	Result at each Ob	servation
		First (0h)	Second (48h)

10. Brucella testing:

Date	Source /Batch of Antigen	Antibody Titre

11. Chest X-Ray (as recommen	nded)	
a. Date		
b. Report contents		
		WO animal being transferred for imal being proposed to be reused
		Signature of Veterinarian
		Name
Date:		Designation
Place:		Occ. C.
		Office Stamp

Experimentation details

[separate sheet for each experiment]

1. Animal No.	2. Age/Body weight/Date
3. Details of the experiments:	
a. Title(s) of the project	
b. Principal investigator	
o. Timeipai investigator	
c. Details of the protocol	
	0.1
4. Age and weight at the time of termin	ation of the experiment
5. Experimental Endpoint Criteria	
ev zinperimenium zineperime erriteriu	
6. Date of Termination of experiment as	s per CPCSEA approval
7. Infectious agent used, if any give det	ails
8. Radioisotope used, if any give details	S
g	
	Signature of the Principal Investigator
	Name
	Designation
D 4	
Date: Place:	
i iacc.	Office Stamp
	Since Stamp

Post-experimentation details of animal & suitability certification for reuse /rehabilitation $\parbox{\ensuremath{\upselect}}$

1. Name of organization currently p	possessing the animal:	
2. Animal No.:		
3. Title of experiment:		
4. Investigators:		
5. Duration under experimentation:		
6. Body weight &date:		
7. Details of experimental procedur		
8. Number of times anesthetized:	9. Number of times blood withdrawn:	
10. Infectious organisms involved:		
11. Radioactive substance used:		
12. Is the animal suffering from an		
13. Physical abnormalities, if any f	urnish details:	
14. Any clinical symptoms:		
	required during rehabilitation and how long:	
16. Special nutritional requirement		
Present condition of the animal [M		
Excellent [Answers to 11-16	It can be retained	
are No]		
Good [Answer to 11-15 are	It can be given for experimentation	
No]		
Satisfactory [Answers to 11-14	Fit for transfer to AWO for rehab	
are No]		
Poor [Answers 11-13 are Yes]	Can be sent for Euthanasia	
	GI AXX . A	
	Signature of Veterin	arian
	NT	
	Name	
	Designation	•••••
Date:		
Place:		
1 1400.	Office S	Stamp
	Office 8	, աուր

Transfer certificate for rehabilitation

[To be filled in for every animal separately]

1. Animal No.	2. Body weight/date:
3. Name & CPCSEA No. of organization h	nanding over the animal(s):
4. Name and address of the Rehabilitation	<u> </u>
	5
5. CPCSEA/AWBI Registration No. of the	e Rehabilitation Unit/AWO:
-	
6. In case of emergencies contact person(s)	details:
Name:	Name:
Telephone No(s):	Telephone No(s):
Fax:	Fax:
7. Person handing over the animal:	8. Person under taking over the animal:
G: ,	G
Signature	Signature
Name	Name
Designation	Designation
Date	Date
	Signature of Votarinarian
	Signature of Veterinarian
	Name
	Designation
	2 osiginutoiii
Date:	
Place:	
	Office Stamp

Tuberculin Testing Record

Г					
Animal No					
Date	Source & Batch number	Ro	esult of readin	gs	Remarks
	пишьст	First (0h)	Second(48h)	Third(72 h)	
			()	,	
Date: Place:		Johnin Testi	Designa	Jame	
nimal No					
Date	Source /Ba	tch of Antigen		t at each Obser	
			First (0h)	Second(48	h) Third(72 h)
Date: Place:			N	Signature of Vame	

Mallein Testing Record

Animal No Date Source /Batch of Antigen Result at each Observation First (0h) Second(48h) Signature of Veterinarian Name Designation Office Stamp Brucella Testing Record Animal No Date Source /Batch of Antigen Antibody Titre				ody Titre
Date Source /Batch of Antigen Result at each Observation First (0h) Second(48h) Signature of Veterinarian Name				ody Titre
Date Source /Batch of Antigen Result at each Observation First (0h) Second(48h) Signature of Veterinarian Name. Designation. Office Stamp Brucella Testing Record	Animal No	Brucella Testing	Record	
Date Source /Batch of Antigen Result at each Observation First (0h) Second(48h) Signature of Veterinarian Name		Brucella Testing	Record	
Date Source /Batch of Antigen Result at each Observation First (0h) Second(48h) Signature of Veterinarian				
Date Source /Batch of Antigen Result at each Observation			_	
Date Source /Batch of Antigen Result at each Observation			First (0h)	Second(48h)
Animal No	Date	Source /Batch of Antigen		

X – Ray Record

Animal	No					
Dat	te	Organ/Site	Radiolo	Radiological Findings		
	,					
		Signatur	_	Veterinary Surgeor		
				••••••		
Pate:						
				Office Stamp		
		Details of Blood D	rawn			
Animal	No					
Date	Quantity	If any anaesthetic used & Quantity	Purpose	Name of the Person drawn the blood		
			Signat	ture of Phlebotomis		
				••••••		
ate:			-			
lace:				Office Stamp		

Body Weig	ght Record	
Date	Weight	
Jaic	weight	
	Signature of A	Animal Technician
		Office Stamp
Microbiol	ogy Record	
Material	Organisms found	Remarks
Si	Name	ogist/Veterinarian
	Date Microbiol Material	Signature of A Name Designation Microbiology Record Material Organisms found Signature of Microbiol Name

Date: Place:

Animal

Date

Date: Place:

Office Stamp

Parasitology Record

Animal I	No [
Date	Ectoparasi	tes Endo	parasites	Remarks
		Sig		ologist/Veterinaria
Pate:				
				Office Stam
		Record of Treati	nent provided	
			.	
animal I	No [
Date	Clinical Symptoms	Diagnosis	Treatment	Remarks
			Signat	ture of Veterinaria
			Name	
Date:			Name	

Haematology Records

											
Anima	ıl No										
Date	Hb (g/l)	PCV (l/l)	RBC (10 ¹² /		WBC (10 ⁹ /l)	Diffe	erential	Leuk	ocyte	Count	ESR
	(8 /					N	L	M	В	E	
							N	lame.	•••••	st/Veter	•••••
Oate: Place:										Office	Stan
Anima	al No		Reco	ord	of Surge	eries c	onduct	ed			
AIIIIII	11 110										
Date	Type	of Surg	ery	P	urpose		Trea	atmen	t	Rema	arks
Date: Place:							N	lame.	•••••	n/Veter	•••••
										Office	Stam

Post-mortem report

			1 USt-	moi tt	птероге				
1. Animal Nu	mber					<u></u>			
2. Source									
3. Date of ind	uction								
4. Was the an									
sacrificed/die									
naturally									
5. Condition of	of the								
carcass	71 0110								
6. Date of dea	th								
	7. History of animal								
8. External ex		ion							
a. Head			Body		c. Limbs				
9. Discharges,	if any	0. 1	Body		c. Emilos				
a. Mouth	b. Eye	c	c. Ear	<u> </u>	d. Nose	e. Anus	f. Va	aina	
a. Mouni	o. Lyc	3	C. Lan	3	u. Nosc	C. Allus	/peni	_	
g. Lesions in	h. Tee	th	i. Ton	മ്പല			/pem	.5	
the buccal	11. 100	uii	1. 1011	gue					
cavity									
10. Internal examination									
a. Lesions in B		uon		h Le	sions in Sinu	icec.			
c. Lungs:	raiii.			d. Heart:					
e. Liver:					ncreas:				
g. Spleen:					dney/Ureter:				
i. Mesenteric I	ymnh r	odes.			mach				
k. Intestine	2y111p11 1	ioues.		1. Ce					
m. Colon:				n. Re					
o. Uterus					aries/Testes				
o. oteras				р. О	arres, restes				
11. Material (Collecte	d for	Laborat	ory as	deemed ne	cessary by path	ologist	;	
conducting PI				•		0 0 1	Ü		
	nples]	Findings			
Samples for M	_	logy							
Samples for Pa									
Samples for H		• •							
12. Importan									
13. Cause of I		8							
		tion	of the	death	of animal	should be gi	ven to	the	
establishment	-		-		•	<i>g</i> .			
	F			JP					
					Signature o	f Pathologist/Vo	eterina	rian	
					_	Name			
						ation			
Date:					Design	VII	• • • • • • • •	•••••	
Place:									
i iacc.						Off	fice Sta	mr	
						Oli	iic Sta	.ութ.	

Histopathology Record

Animal No.			
Dat	te	Material	Findings
		Signature of	f Pathologist/Veterinarian
			Jame
		Designa	ation
Date:			
Place:			0.00

Office Stamp

D. Minimum Floor Area Per Animal:

Species	Cage size in feet			Floor area Sq.
Species	Width	Length	Height	Ft.
Dog/ Cat	3	5	4	15
Goat/ Sheep	4	6	5	24
Cattle-Calf	4	6	5	24
Cattle-Adult	6	10	6	60
Monkey	4	4	5	16
Horse	6	12	7	72
Pig	3	4	4	48

(Note: Above is the minimum floor areas required for specific species for each animal if individually housed. However, animal should have enough space to move around.)

E. Minimum ratio of animals to attendants for specific animals:

Dogs/Cats	Goat or Sheep	Cattle	Monkey	Horse
15:1	20:1	10:1	8:1	4:1

Annexure II

Undertaking for Rehabilitation

hereby declare that the animal (species) Number being
rehabilitated at is fit for rehabilitation and is apparently healthy.
Signature of Principal Investigator
Name
Designation
Date: Place:
i lace.
Signature of Head of the organisation
Name Designation
Date:
Place: Office Stamp
•
Signature of Main Nominee of CPCSEA
Name
Designation
Date:
Place: Office Stamp