# AQUATIC ANIMAL DISEASE REPORT - 2023

Country/territory: INDIA

Item	Disease status/occurrence code a/b/													Epidemiologic
DISEASES PREVALENT IN THE REGION FINFISH DISEASES J		Month												
		February	March	April	May	June	July	August	September	October	November	December	diagnosis	numbers
WOAH-listed diseases														
1. Infection with Aphanomyces invadans (EUS)	+()	+()	+()										III	1
Infection with epizootic haematopoietic necrosis virus	0000	0000	0000											
3. Infection with Gyrodactylus salaris	0000	0000	0000											
4. Infection with HPR-deleted or HPR0 infectious salmon anaemia virus	0000	0000	0000											
5. Infection with infectious haematopoietic necrosis virus	0000	0000	0000											
6. Infection with koi herpesvirus	0000	0000	0000											
7. Infection with red sea bream iridovirus	-	+()	-										III	2
8. Infection with salmonid alphavirus	0000	0000	0000											
9. Infection with spring viremia of carp virus	0000	0000	0000											
10. Tilapia lake virus (TiLV)	+()	-	-										III	3
11. Infection with viral haemorrhagic septicaemia virus	0000	0000	0000											
Non WOAH-listed diseases of regional concern														
12. Grouper iridoviral disease	0000	0000	0000											
13. Viral encephalopathy and retinopathy	-	-	-											
14. Enteric septicaemia of catfish	0000	0000	0000											
15. Carp Edema Virus Disease	+()	+()	+()										III	4
MOLLUSC DISEASES														
WOAH-listed diseases														
1. Infection with abalone herpesvirus	0000	0000	0000											
2. Infection with Bonamia ostreae	0000	0000	0000											
3. Infection with <i>Bonamia exitiosa</i>	0000	0000	0000											
4. Infection with Marteilia refringens	0000	0000	0000											

5. Infection with <i>Perkinsus marinus</i>	0000	0000	0000	I		l		1			
6. Infection with <i>Perkinsus olseni</i>	+()	+()	+()							III	5
7. Infection with Xenohaliotis californiensis	0000	0000	0000								-
Non WOAH-listed diseases of regional and national concern											
8. Infection with Marteilioides chungmuensis	0000	0000	0000								
9. Acute viral necrosis (in scallops)	0000	0000	0000								
CRUSTACEAN DISEASES											
WOAH-listed diseases											
Acute hepatopancreatic necrosis disease (AHPND)	0000	0000	0000								
2. Infection with Aphanomyces astaci (Crayfish plague)	0000	0000	0000								
3. Decapod iridescent virus 1 (DIV-1)	0000	0000	0000								
4. Infection with <i>Hepatobacter penaei</i> (Necrotising hepatopancreatitis)	0000	0000	0000								
Infection with infectious hypodermal and haematopoietic necrosis virus	-	-	-								
6. Infection with infectious myonecrosis virus	-	+()	+()							III	6
7. Infection with <i>Macrobrachium rosenbergii</i> nodavirus (White Tail disease)	1	ı	-								
8. Infection with Taura syndrome virus	0000	0000	0000								
9. Infection with white spot syndrome virus	+()	+()	+()							III	7
10. Infection with yellow head virus genotype 1	0000	0000	0000								
Non WOAH-listed diseases of regional and national concern											
11.Hepatopnacreatic Microsporidiosis caused by Enterocytozoon hepatopenaei (HPM-EHP)	+()	+()	+()							III	8
12. Viral covert mortality disease (VCMD) of shrimps	0000	0000	0000								
13. Spiroplasma eriocheiris infection	0000	0000	0000								
14. Iridovirus in crayfish	0000	0000	0000								
15. Monodon slow growth syndrome	0000	0000	0000								

AMPHIBIAN DISEASES									
WOAH-listed diseases									
1. Infection with Batrachochytrium dendrobatidis	***	***	***						
2. Infection with Batrachochytrium salamandrivorans	0000	0000	0000						
3. Infection with Ranavirus species	0000	0000	0000						

# Prepared by:

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Position: Joint Secretary (Fisheries)

Date: 21.07.2023

ANY OTHER DISEASES OF IMPORTANCE							
1							
2							

## DISEASES PRESUMED EXOTIC TO THE REGIO

## LISTED BY THE WOAH

Finfish: Infection with HPR-deleted or HPR0 salmon anaemia virus; Infection with salmon pancreas disease virus;

Infection with Gyrodactylus salaris.

Molluscs: Infection with Marteilia refringens;

Perkinsus marinus .

# NOT LISTED BY THE WOAH

### Finfish: Channel catfish virus disease

a/ Please use the following occurrence code:

Occurrence code	<b>Definition</b>	Occurrence code	<u>Definition</u>
Disease present	The disease is present with clinical signs in the whole country (in domestic species or wildlife)	Disease absent	The disease was absent in the country during the reporting period (in domestic species or wildlife).
Disease limited to one or more zones +( )	The disease is present with clinical signs, and limited to one or more zones/compartments (in domestic species or wildlife)	Never reported 0000	The disease has "never been reported" (historically absent) for the whole country in domestic species and wildlife.
Infection/infestation +?	Confirmed infestation or infection using diagnostic tests, but no clinical signs observed (in domestic species or wildlife)	No information ***	No information is available regarding the presence or the absence of this disease during the reporting period (in domestic species or wildlife).
Infection/infestation limited to one or more zones +?()	Confirmed infestation or infection using diagnostic tests, but no clinical signs observed and limited to one or more zones/compartments (in domestic species or wildlife)		
Disease suspected ?	The presence of the disease was suspected but not confirmed (in domestic species or wildlife)		
Disease suspected but not confirmed and limited to one or more zones ?()	The presence of the disease was suspected but not confirmed and limited to one or more zones/compartments (in domestic species or wildlife)		

b/ If there is suspicion or confirmation of any of these diseases, they must be reported immediately, because the region is considered

free of these diseases

If the historical data been adjusted please highlighted thoese information,

1/ Listed by WOAH as "under study"

# 1. Epidemiological comments:

(Comments should include: 1) Origin of the disease or pathogen (history of the disease); 2) Species affected; 3) Disease characteristics (unusual clinical signs or lesions); 4) Pathogen (isolated/sero-typed); 5) Mortality rate (high/low; decreasing/increasing); 6) Death toll (economic loss, etc); 7) Size of infected areas or names of infected areas; 8) Preventive/control measures taken; 9) Samples sent to national or international laboratories for confirmation (indicate the names of laboratories); 10) Published paper (articles in journals/website, etc). and 11) Unknown diseases: describe details as much as possible.)

Comment No.	
1	Infection with Aphanomyces invadans was detected in Oreochromis sp. and Channa sp. from very limited areas of Mysore district of Karnataka. It was also reported in Labeo rohita, Cirrhinus mrigala, Ctenophyryngodon idella, Channa striata, and Wallago attu from very limited areas of Barabanki district of Uttar Pradesh. It was also reported in Labeo rohita, Labeo gonius, Labeo catla, Cirrhinus mrigala; Hypophthalmichthys molitrix from very limited areas of Dhalai district of Tripura. The disease was also reported in Channa marulius from very limited areas of Ernakulam districts of Kerala.
2	Red sea bream iridoviral disease was reported in Lates calcarifer from very limited areas of Malappuram district of Kerala.
3	Infection with tilapia lake virus was reported in Oreochromis niloticus from very limited areas of Ernakulam district of Kerala.
4	Carp Edema Virus Disease was reported in Koi carp from very limited areas of Thiruvallur district of Tamil Nadu and Ernakulam district of Kerala.
5	Infection with <i>Perkinsus olseni</i> was detected from farmed <i>Perna viridis</i> in Kasaragod, Kannur and Kozhikode districts of Kerala, and Uttara Kannada and Udupi districts of Karnataka. It was also reported from wild samples of <i>Mytella strigata</i> and <i>Paphia malabarica</i> in Mangalore district of Karnataka and Kannur district of Kerala.
6	Infection with Infectious Myonecrosis Virus (IMNV) was reported in <i>Penaeus vannamei</i> from very limited areas of Palghar district of Maharashtra.
7	Infection with White spot syndrome virus (WSSV) was reported in <i>Penaeus monodon</i> from very limited areas of Kannur districts of Kerala. The WSSV infection in <i>Penaeus vannamei</i> reported from very limited areas of Palghar district of Maharashtra, Udupi and Uttara Kannada district of Karnataka, and Cuddalore and Ramanathapuram districts of Tamil Nadu.
8	Infection with Enterocytozoon hepatopenaei (EHP) was detected in <i>Penaeus vannamei</i> from very limited areas of Kannur district of Kerala, in Uttara Kannada district of Karnataka, in Palghar and Raigarh districts of Maharashtra, in Nellore districts of Andhra Pradesh and Mayiladuthurai, Thiruvallur, Thanjavur, Pudhukottai and Cuddalore districts of Tamil Nadu.

2. New aquatic animal health regulations introduced within past six months (with effective date):