## S3 Table: Definitions of terms used in this study.

Term	Definition
Chained husbandry	Animals are restrained by chains (one-legged or two-legged ankle chains with lengths of less than 5m for elephants, collar-chains for macaques and tigers)
Solitary husbandry	Animals are kept for most of the day under conditions that do not allow opportunities for tactile interaction, such as grooming or social bounding
Shelter	Any natural or artificial structure that the animal has access to and that allows it to avoid exposure to direct sunlight and weather
Pacing stereotypy	Continuous back and forth walking along the same path for at least three repetitions
Weaving stereotypy	Continuously shifting weight from one body side to the other while standing in one place, often accompanied by swinging the head
Self-mutilation stereotypy	Self-inflicting injury and physical harm through biting of limbs or tails, or hitting the head against a wall
Hair plucking stereotypy	Continuous plucking of hair on limbs or other body parts, leading to bald patches or irritated skin
Licking stereotypy	Continuous licking of the same spot on a body part in absence of injury, leading to hair loss and irritated skin
Other behaviour stereotypies	Includes all other recognized stereotypic movements such as head bobbing (up and down movement of the head), spinning, bouncing or self-clasping
Teeth grinding behaviour	Animals are grinding their teeth, producing a notable sound
Aggressive behaviour	Animals display unusual amount of aggression towards conspecies, visitors or keepers, such as charging, showing teeth or hissing
Irresponsive behaviour	Animals that are awake do not react at all to events in the environment and do not interact with any object or animal for at least 5min
Animal show attraction	Animals are regularly made to perform various unnatural activities, such as balancing on two legs, riding tricycles, painting, or walking on tight-ropes within an arena for an audience
Washing/bathing attraction	Visitors are permitted to wash an animal under guidance by animal supervisors
Photo opportunities attraction	Visitors are allowed to pose for a photograph with restrained animals reserved for this purpose, e.g. tigers, orang-utans, macaques
Cub feeding attraction	Tiger cubs, previously removed from their mothers, are being presented to tourists to be fed with prepared milk formulation
Be-a-mahout attraction	Elephants are being assigned a tourist to handle it under supervision by a mahout for a half or full day