

Name of Work:- Supply of Tricycle with 8 Nos. plastic container (40 Nos. tricycles)

1. A symmetric drawing of tricycle with 8 nos. plastic containers is attached only for reference.
 - A. Manufacturer may get approval of their drawing and design from indenter/QA officer /inspection agency before manufacturing bulk production.
 - B. All steel component should be epoxy powder coated having 60 micron (minimum) thickness
 - C. Item should be packed in such a way that there should be no damage in the transit.
 - D. Item should be marked as Manufacture Name, Year of manufacture and any other marking required by the indenter.

Tricycle:-

Specification:

Tricycle should have 8 nos. detachable plastic containers capacity of 40 liters made from Roto Moulding / Injection Moulding with lockable chain arrangement.

(A) Tricycle:

1. The tricycle shall have 3 nos. wheels out of which 2 nos. back wheels shall be puncher-less rubberized of 16 Nos. spokes 20mm x 1.6mm thick of better, MS pipe welded on the rim and one front wheel of standard type with puncher less rubberized and double sealed bearing to support rickshaw, it should have a locking arrangement and have suitable arrangement for placing 8 Nos. containers in 8 Nos. slots made of MS angle of size 25x253mm. it should have a standard bell, cycle lock, reflectors, hooks, toolkit, locker, first aid box, seat with cover, hangers for broom, wiper etc.
2. Platform of tricycle will have 3mm MS sheet fixed with 12mm dia holes in 200mm square matrix.
3. Special standard control point rounded rubber grip should be provided in the handle.

4. A name plate of size 310x205mm and 0.7mm thick should be welded at the front side of the tricycle.
5. Frame, fork with fitting should be made from mild steel heavy duty tubular frame with 5 tubes, made from tube of size 28.6x1.63mm.
6. It should have heavy duty pedal.
7. Handle bar shall be of heavy duty Nickel and chrome plated and size shall not be less than 410mm between the two grips. The front fork supported by flat steel anvil shall conform to IS 2061/1995 (reaffirmed 2010) with amendment no. 1.
8. Chain wheel and crank should be heavy duty Nickel and chrome plated conforming to IS 1281/2014.
9. Chain should be 212-links – heavy duty extra strong chain conforming to designation 083-1 of IS 2403/1991
10. It should have a quarter chain cover with black colour of thickness 1.2mm and 90mm wide.
11. Mud guard of thickness 1.2mm with steel stays should be fitted with red reflectors on each mud guard rear and front.
12. Cotter pin should be 9.5mm zinc plated.
13. Front rim should be 700mm x38mm heavy 3.2mm, 1.6kg
14. Rear rim should be bullet rim 400 mm dia x 80 mm x 1.6mm thickness and hub fitted with bearing 2204/2205 and which MS round spokes of heavy duty.

Plastic Container:

1. Plastic Container (Injection / Roto Moulding) made of HDPE / PP material should be of size 350 x 350 mm at the top, 300 x 300 mm at the bottom and its internal height should be 450mm. the minimum wall thickness of plastic container should be 4 mm. The colour of the container should be either green or blue.

2. Ash content of the HDPE container shall be more than 1% when tested as per method as described in Annex D of IS 14887/2014 – 1 No. sample size from each lot of 500 nos. container.
3. The plastic container should have at least of 0.25% UV additive and pass the UV Resistance Test as per requirement of SI No. (ix) of table 1 when tested as per Annex C of IS 14887/2014. Lab should be confirm in the report itself that there is no change in colour after 192 hours exposure of sample. One sample from the each offered lot of size 500 Nos. of containers shall be sent to CIPET, IIP or any Central Govt. Laboratory by inspection agency during each inspection for UV Resistance Test. If lot size is more than 500 Nos. in such cases each lot will be divided in 500 Nos. and tested as per the above procedure.

Corporation Engineer
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