

M P AGRO

THE M.P. STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED PANCHANAN, 3rd FLOOR, MALVIYA NAGAR, BHOPAL PHONE - 0755-2551652, 2551756, 2761392 FAX 0755-2557305, EMAIL: mpagrohobpl@gmail.com WEBSITE: www.mpagro.org

ONLINE RCO DOCUMENT

FOR SUPPLY OF WATER TANKER MOUNTED ON TWO WHEEL TARCTOR TRAILER - YEAR 2024-25

DUE ON 12.06.2024

RCO DOCUMENT FEES

Rs. 10000 + 1800 (18%GST) = 11800

(Eleven Thousand Eight Hundred Only) Shall be paid online.

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THE MADHYA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED

"PANCHANAN" 3rd FLOOR, MALVIYA NAGAR, BHOPAL Phone (0755) - 2551652, 2551756, 2551807, Fax: 0755-2557305

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ANNEXURE - I

FOR SUPPLY OF WATER TANKER



THE MADHYA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT **CORPORATION LIMITED**

"PANCHANAN" 3rd FLOOR, MALAVIYA NAGAR, BHOPAL Phone (0755)- 2551652, 2551756, 2761392, Fax: 0755-2557305

HO: MKTG/TANKER/2024-25/471 Dated: -22.05.2024.

E - RCO NOTICE

Online RCO are invited for supply of FOR SUPPLY OF WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER FOR THE YEAR 2024-25. Manufacturer of these items may participate in the RCO on the basis of Eligibility Criteria mentioned in the documents.

RCO documents can be purchased by paying RCO fee Rs. 10000 + 1800 (18% GST) = 11800 (Eleven Thousand Eight Hundred Only) each online up to following date :-

S.N.	Name of Item	Last Date to Submit	EMD
01.	FOR SUPPLY OF WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER	12.06.2024	1,00,000/-

MSME & STARTUP Enterpreneurs of Madya Pradesh are Exempted for EMD.

The detailed RCO and other information can be seen at Corporation's website www.mpagro.org and www.mptender.gov.in. Amendments, if any, will be published only on above websites. No further notification will be made in the newspapers.

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ANNEXURE - II



THE MADHYA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED

"PANCHANAN" 3rd FLOOR, MALAVIYA NAGAR, BHOPAL Phone (0755)- 2551652, 2551756, 2761392, Fax: 0755-2557305

DISCLAIMER & ABBREVIATIONS, DEFINITIONS AND INTERPRETATION

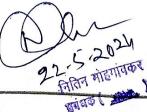
A. DISCLAIMER:

- 1. The information contained in this RCO Document has been prepared solely for the purpose of providing information to the interested parties, and is not in any way binding on MP AGRO.
- 2. By accessing this RCO Document, Prospective Bidder agrees that MP AGRO will not be liable for any direct or indirect loss arising from the use of the information and the material contained in this RCO Document.
- 3. Prospective Bidder's access to it does not imply a license to reproduce and / or distribute information contained therein and Bidder not allowed to any such act without the prior approval of MP AGRO.
- In case any Prospective Bidder finds any discrepancy or omission in the any part of the RCO Document/or he has any doubt to their meaning, he should notify the MP AGRO minimum 5 days prior to RCO opening date. MP AGRO may clarify and send instruction to all bidders for correction through portal / Website, if necessary. It however, does not entitle the bidder to seek any extension of RCO opening date.
- 5. It shall be understood that every endeavor has been made to avoid any error which can materially affect the basis of the RCO and All bidder shall take upon himself and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.
- 6. The submission of the RCO will be deemed to imply that the Bidder fully understands the scope of work involved and has read and understood all conditions of the RCO document and his liabilities and responsibilities in respect of the RCO.
- 7. Information received against any discrepancy (up to due date and time as mentioned above) will be examined and, if any amendments required same will be uploaded as Corrigendum with RCO document. If no amendments are required the Bidder will have no right to raise objection.
- The Corporation reserves the right to reject any or all of the RCO submitted in response to this RCO at any stage without assigning any reasons whatsoever.
- 9. The Corporation reserves the right to change any or all of the provisions of this RCO. Such changes would be intimated to prospective bidders on portal.

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B. ABBREVIATIONS, DEFINITIONS AND INTERPRETATION

- 01. The Corporation/MP AGRO means M.P. State Agro Industries Development Corporation Ltd.
- 02. Beneficiary/Consignee means The person/department who wish to purchase the items through this Corporation.
- 03. Application forms/the document means Application forms and all other relevant annexure/documents
- 04. Applicant/Bidder means The Manufacturer who submits RCO for supply and installation of Items as per document.
- 05. EMD means Earnest Money Deposit
- 06. Managing Director means Managing Director of MP State Agro Industries Development Corporation Ltd Bhopal.
- 07. RCO means Rate Contract Offer
- 08. DOH means Director of Horticulture, Govt. of MP
- "Contract" means and includes the invitation to RCO, instructions to Bidder, RCO, acceptance of RCO, Conditions to Contract, particulars and the other conditions specified in the acceptance of RCO and includes repeated orders which have been accepted or acted upon by the/ for the Supplier and a formal agreement, if executed;
- 10. The "Suppliers" means the person, firm or company with whom the order for the supply is placed and shall be deemed to include the suppliers' successors (approved by MP AGRO) representatives, heirs, executors and administrators, as the case may be, unless excluded by the terms of the contract;
- 11. "The Inspecting Agency' means an Government Agency/Department to Inspect materials or services authorized by QCI approved third party inspection Agency, Govt. Agency such as DGS&D / RITES / CIPET /EIL / IR-Class / PDIL/ Government Engineering College or any Government Technical Department or any Government institution.
- "The Purchaser" means the MP STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED, (MP AGRO).
- 13. "Materials" means the goods specified in the contract which the Supplier has agreed to supply under the contract;
- 14. "Test" means such test as is prescribed by the particulars or considered necessary by the MP AGRO performed or made by the inspecting agency acting under an order issued by MP AGRO.
- 15. Contract shall be governed by the Laws of India for time being in force.



- Words importing the singular shall include the plural and vice versa, words importing 16. any gender shall include all other genders, words importing persons shall include bodies corporate, unincorporated associations and partnerships and vice versa. References to whole shall include the part and vice versa.
- The Courts of the place from where the acceptance of the RCO has been issued 17. shall alone have jurisdiction to decide any dispute arising out of or in respect of the
- A person signing the RCO or any other document in respect of the Contract on behalf 18. of the supplier without disclosing his authority to do so shall be deemed to warrant that he has authority to bind the Supplier. If it is discovered at any time that the person so signing has no authority to do so, MP AGRO may, without prejudice to any other right or remedy of MP AGRO, cancel the contract and make or authorize making of a purchase of the materials at the risk and cost of such person, and hold such person liable to MP AGRO for all costs and damages arising from the cancellation of the contract including any loss which MP AGRO may sustain on
- For all purposes of the contract, including arbitration there under, the address of the 19. Supplier mentioned in the RCO shall be address to which all communications addressed to the Supplier shall be sent, unless the Supplier has notified change by a separate letter containing no other communication and sent by registered post acknowledgment due to MP AGRO. The Supplier shall be solely responsible for the consequence of an omission to notify a change of address in the manner aforesaid.

92.5.2024



THE MADHYA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED

"PANCHANAN" 3rd FLOOR, MALAVIYA NAGAR, BHOPAL Phone (0755)- 2551652, 2551756, 2761392, Fax: 0755-2557305

TITLE, TIME SCHEDULE, RCO FEE & EMD, DESCRIPTION

(A) TITLE: FOR SUPPLY OF WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER FOR THE YEAR 2024-25.

TIME SCHEDULE:

Stages of Bidding	Scheduled time	Scheduled Date
Purchase of RCO	upto 2.00 PM	12.06.2024
PRE BID MEETING	At 01.00 PM	29.05.2024
Date of Including the Sugggestions of PRE bid Meeting in RCO	upto 04.00 PM	29.05.2024
Last date of submission	upto 04:00 PM	12.06.2024
Opening of technical bid	upto 03.00 PM	13.06.2024

Financial Bid of the successful bidders will be opened on the date decided by corporation which will be intimated to bidders & published on website in due course of time.

Each stage will take place on the date and time mentioned against them. However if the date and time is changed/ postponed information in this regard will be published on corporation website www.mptender.gov.in

(B) RCO FEE & EMD:

The RCO invited under e-RCO system and bidding process will have following steps:

RCO FEE	Rs. 10000 + 1800 (18%GST) = 11800 (Eleven Thousand Eight Hundred Only) Shall be paid online. (Non Refundable)			
EMD	Rs 1,00,000/- (One Lakh Only) Shall be paid online.			
NO EXEMPATATION IS APPLICABLE FOR RCO DOCUMENT FEE				

Note: If RCO is cancelled or RCO of any Bidder is rejected. EMD amount so deposited will be refunded online. No interest shall be paid on EMD amount.

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DESCRIPTION OF WATER TANKER :

N.	ITEM DESCRIPTION
M.S	. WATER TANKER
1	MS WATER TANKER MOUNT
١.	M.S. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILERCAPACITY 5000
2.	M.S. WATER TANKER MOUNTED ON TWO
	M.S. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILERCAPACITY 5000
3.	M.S. WATER TANKER MOUNTED ON TWO MILES
	M.S. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILERCAPACITY 5500
4.	M.S. WATER TANKER MOUNTED ON
5.	CAPACITY 5500 LITER WITH 900x20 NEW TYRES. MODEL - 4
5.	
6	LITER WITH FIRE FIGHTING PUMP AND 900x16 NEW TYRES. MODEL - 5 M.S. WATER TANKER MOUNTED ON TWO WITES.
Ū	M.S. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILERCAPACITY 5000
	TYPE FIGHTING PUMP AND 900000 NEW TYPE OF THE MICHAELT SOUND
	1 THE SOUZE NEW TYRES. MODEL - 6
3.I. V	330X20 NEW TIRES. MODEL - 6
	VATER TANKER
7	G.I. WATER TANKER MOUNTED ON TWO WIT
7	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000
	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5000 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5000 G.I. WATER TANKER MOUNTED ON THE STANKER MOUNTE
7	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5000 LITER WITH 900x16 NEW TYRES. MODEL - 7 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH NEW 900x20 TYPES MODEL
7	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5000 LITER WITH 900x16 NEW TYRES. MODEL - 7 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH NEW 900x20 TYRES. MODEL - 8 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY
7 8 9	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5000 LITER WITH 900x16 NEW TYRES. MODEL - 7 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH NEW 900x20 TYRES. MODEL - 8 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY LITER WITH 900x16 NEW TYRES. MODEL - 8
7 8 9	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5000 LITER WITH 900x16 NEW TYRES. MODEL - 7 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH NEW 900x20 TYRES. MODEL - 8 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5500 LITER WITH 900x16 NEW TYRES. MODEL - 9 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5500
7 8 9	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5000 LITER WITH 900x16 NEW TYRES. MODEL - 7 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH NEW 900x20 TYRES. MODEL - 8 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5500 LITER WITH 900x16 NEW TYRES. MODEL - 9 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5500 LITER WITH 900x20 NEW TYRES. MODEL TRACTOR TRAILER CAPACITY 5500
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7 8 9 10	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5000 LITER WITH 900x16 NEW TYRES. MODEL - 7 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH NEW 900x20 TYRES. MODEL - 8 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5500 LITER WITH 900x16 NEW TYRES. MODEL - 9 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5500 LITER WITH 900x20 NEW TYRES. MODEL - 10 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5500 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5500 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY
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7 8 9 10 11	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5000 LITER WITH 900x16 NEW TYRES. MODEL - 7 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH NEW 900x20 TYRES. MODEL - 8 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY5500 LITER WITH 900x16 NEW TYRES. MODEL - 9 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5500 LITER WITH 900x20 NEW TYRES. MODEL - 10 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH FIRE FIGHTING PUMP AND 900x16 NEW TYRES. MODEL - 11 G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY
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THE MADHYA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT **CORPORATION LIMITED**

"PANCHANAN" 3rd FLOOR, MALAVIYA NAGAR, BHOPAL Phone (0755)- 2551652, 2551756, 2761392, Fax: 0755-2557305

ELIGIBILITY OF BIDDER & TECHNICAL SPECIFICATION OF ITEM

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(A)	EL			_		

(A)	ELIGIBILITY:	
S.N.	<u>ELIGIBILITY</u>	DOCUMENT TO BE UPLOADED
1	RCO documents (Page 1 to 64)	RCO documents duly signed on each page with office seal affixed.
2	Tot the NCO item	Certificate from Industry department / District Industrial Center (DIC)/ Single Point Registration Certificate of NSIC/UDYAM Registration Certificate issued by Ministry of Micro Medium & Small Enterprises .
3	Bidder should have valid feasibility Report of RCO items	Valid feasibility report for manufacturing of RCO items by those Government Department/Agency which is approve by the Quality Council of India/N.A.B.C.B., any Government Engineering College, any Government Technical Department or Government institution.
	,	Feasibility report must coverred the following points -
		(A) Name and full address of Manufacturing unit.
		 (B) Machineries Installed in Manufacturing unit, Name and Quantity. (C).Production Capacity of Manufacturing unit for RCO Items. (D) Manufacturing unit is in running condition or not.
4	Bidder should have approved Drawing Design of items	Approved Drawing Design approved by State Transport commissioner.
5	Bidder should have Valid Trade Certificate	Valid Trade certificate Issued by
6	The Total Cumulative Turnover of the Bidder for the Last Three financial Years i.e. (2020-21, 2021-22, 2022-23) in Febrication Items should not less than be 4 (Four) crorer.	Concerned District Transport Authority. A certificate issued by Chartered Accountant with UDIN Number showing Turnover for the last three financial years, i.e. (2020-21, 2021-22, 2022-23) in supply of Fabrication Items.
	1- Startup and MSME of M.P. will get Relaxation of Rs/- 1 corer in Febrication Items Turn over .	
7	Other necessary requirements for eligibility shall be as mentioned in Rate Contract BID document	
	9	2024

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- GST Registration certificate
- Affidavit from the Bidder that their firm has never ever been blacklisted by any Govt. organization, semi Govt. organization or any corporation till date Anex - X
- Letter of Undertaking & Declaration on 500 Rs Stamp Paper Anex - VIII
- Scheduled Castes, Scheduled Tribes, Women owned entrepreneurs are required to submit evidence online in support of eligibility
- WOMEN CASTE/TRIBE SCHEDULED **FOR** PROVISION ENTERPRENEURS: According to the policy of the state government, SC/ST offerers, (A) who will be presented with a certificate related to special registration in the District Industry Center NSIC/UDYAM Registration Certificate who will be found eligible as per the online rate contract offer conditions, will be given opportunity of minimum 25% of the business (as per clause 23.4 of prescribed policy, M.P. Dated 13 /01/2023), out of which, 4 percent participation will be ensured in the business. Similarly, according to Clause 23.1(1) of the Store Purchase Rule, out of minimum 25 percent participation of 3 percent in the business, it will be ensured to purchase from micro and small enterprises owned by women. To get the above facility/priority, it is mandatory to submit self-attested copies of related documents along with RCO. This system will be valid only in those cases where firm orders are received from the government. In case of purchase by the farmer, the farmer will have full right to choose.
 - (B) Provision to the Startup. According to the provisions of rule 14.1 of the Madhya Pradesh Store Purchase, 2015 (as amended in 2022), the qualified M.P. Startup offerer exempted for Earnest money Deposit (EMD), and rule 22(1) qualified Startup offerer may be exempted experience and turnover. To get the above facility it is mandatory to submit self-attested copy of Startup Certificate issued by Department of Industrial Policy and Promotion (DIPP) under the Ministry of Commerce and Industry along with RCO.

Startup of M.P. Exempted for Earnest money Deposit (EMD), and will be given Relaxation of Rs/- 1 Crore in Turnover.

(D) Provision for MSME

According to the provisions of rule 14.1 of the Madhya Pradesh Store Purchase, 2015 (as amended in 2022), the qualified MSME of M.P. offerer exempted for Earnest money Deposit (EMD) only, To get the above facility it is mandatory to submit self-attested copy of Udyam Registration Certificate issued by Ministry of Micro, Small and Medium Enterprises along with RCO.

MSME of M.P. Exempted for Earnest money Deposit (EMD) and and will be given Relaxation of Rs/- 1 Crore in Turnover.

(E) NON-ELIGIBILITY TO PARTICIPATE IN THE RCO DUE TO PENDING COURT CASE/DISPUTE

The offers of such bidders shall not be accepted with whom any court case and/or dispute are pending with the Corporation, other Government department or any other organization/agency. Offers of such bidders shall also not be accepted with whom any criminal case is also pending. if the offerer has any Serious Dispute with the Corporation or Black listed by the Corporation regarding the supply of any other material or any other RCO then the same will be considered against the offerer for this RCO.

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THE MADHYA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED

"PANCHANAN" 3rd FLOOR, MALAVIYA NAGAR, BHOPAL Phone (0755)- 2551652, 2551756, 2761392, Fax: 0755-2557305

MANDATORY DOCUMENTS TO BE UPLOADED:

- RCO documents duly signed on each page with office seal affixed. (Page 1 to 64)
- Certificate from Industry department / District Industrial Center (DIC)/ Single 02. Point Registration Certificate of NSIC/UDYAM Registration Certificate issued by Ministry of Micro Medium & Small Enterprises .
- Valid feasibility report for manufacturing of RCO items by those Government 03. Department/Govt. Agency which is approve by the Quality Council of India/N.A.B.C.B., any Government Engineering College, any Government Technical Department or Government institution. feasibility report Including poaints as under -
 - (A) Name and full address of Manufacturing unit.
 - (B) Machineries Installed in Manufacturing unit, Name and Quantity.
 - (C) Production Capacity of Manufacturing unit for RCO Items.
 - (D) Manufacturing unit is in running or not.
- 04. Approved Drawing Design approved by State Transport commissioner.
- Valid Trade certificate Issued by Concerned District Transport 05. Authority.
- A certificate issued by Chartered Accountant with UDIN Number 06. showing Turnover for the last three financial years, i.e. (2020-21, 2021-22, 2022-23) in supply of Febrication Items.
- Application form duly filled as par Annexure VI 07.
- Valid proof of authority to signing the document in case of 08. Partnership Firm and Limited company.
- 09. GST Registration certificate.
- Affidavit from the Bidder that their firm has never ever been 10. blacklisted by anyGovt. organization, semi Govt. organization or any corporation till date. Annexure-X
- Letter of Undertaking & Declaration on 500 Rs Stamp Annexure VIII 11.
- Financial Bid as per schedule Annexure IX 11.
- 12. Electricity Bills for last three months
- Scheduled Castes, Scheduled Tribes, Women owned entrepreneurs are 13. required to submit evidence paline in support of eligibility.

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To

APPLICATION FORM

Managing Director M P State agro Industries Development Corporation Ltd3rd Floor, Panchanan Bhawan Malviya Nagar Bhopal

Sub :- RCO Document for supply of FOR SUPPLY OF TWO WHEEL WATER TANKER FORTHE YEAR 2023-24 & ONWARD. Dear Sir,

Kindly accept our application for RCO Document for supply of **TWO WHEEL WATER TANKER** in the state of Madhva Pradesh. I am submitting application and details as under

	state of Madhya Pradesh. I am submitting application a Name & Address of the Applicant Firm	nd details as unde	er ANKER in the
	If Proprietorship		<i>.</i>
	a) Name of Proprietor		
	b) Full Address		
	c) PAN number /GSTN No		
	d) E - Mail		
	d) E - Mail		
	If Partnership		
	a) Name of partners and their address		
		1.	2. 3.
		Yes / No	<u> </u>
		Date	***************************************
	c) E - Mail		
	If Limited or Pvt. Limited Company under		
	under company		
	Indian Companies Act 1956.	1	
	of Tilvale Limited		
	Registered Office Address		
	Date of Certificate of in Corporation		
	E - Mail		
2	If LLP		
_	a) Name & Address of Partners		
	h) Certificate 6		
_	b) Certificate of registration c) E - Mail		
3	C) E - Mail		
	Location of Production units		
4	Year of Establishment of the units.		
5	Name, Designation & Mobile No. 1		
5.	Name of Person Singing the PCO		
	(In Case Of Authorized Person Specific		
	1 UWCI OIAIIOrney has to be seed to be		
7	Details of Turnover for last Three financial		
	years in Febrication Items (Rs in Lakhs)	Year	TurnOres
	Rs in Lakhs	- 500	TurnOver in Febrication
	<u> </u>	2020-21	Items
		2021-22	
	I here by confirm that all the above infor	2022-23	

I here by confirm that all the above infor knowledge & belief. All the documents as require Date	rmation is true to the best of my ed in the documents as enclose.
Notes	333000

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Separate sheet may be used if necessary.

2. Strike out whatever not applicable.

Seal & Signature of the Bidder

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THE MADHYA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED

"PANCHANAN" 3rd FLOOR, MALAVIYA NAGAR, BHOPAL Phone (0755)- 2551652, 2551756, 2761392, Fax: 0755-2557305

CONDITIONS OF RATE CONTRACT

1. PROCEDURE FOR RCO:

- The Corporation invites online RCO for supply and installation of Material 1.1 mentioned in Annexure - III.
- Only one online RCO will be accepted from One Applicant / Firm. If any 1.2 individual participating in the BID, representing more than one firm in one or different names and it comes to MP AGRO'S knowledge at any point of time, all such BID will not be entertained and shall be liable for rejection.
- 1.3 The bidders intending to participate in this RCO are required to get enrolled/registered the on www.mptender.gov.in. registration and subsequent empanelment on the above portal and sub portal
- 1.4 RCO documents can be purchased only online from http:// mptender.gov.in by making online payment of portal fees etc.
- 1.5 It is the discretion of the Managing Director of the corporation to accept/reject the application without assigning any reason thereof.

2 **SUBMISSION OF RCO:**

Corporation Invites online RCO for supply of material as mentioned in (Annexure III). The Bidder will have to get themselves registered with www.mptender.gov.in for E-tendering, without registration BID cannot be uploaded on portal. To participate in Online RCO interested Bidder will be required Registration at Portal and valid class 3 digital signature certificates. An amount of Rs 11800/- as RCO fees to be deposited online through website www.mptender.gov.in that is to be paid by Bidder for registration under E-tendering.

3. **OPENING OF TECHNICAL BID:**

Soft copies uploaded upto due date and time will be opened on due date and time as

DELAY IN SUBMISSION: 4.

The Corporation will not be responsible for any delay on any account in receipt of RCO. If the BID is received after the specific date and time, even if the delay in receipt was caused in postal transit or any other reason, what so ever.

CHANGE IN OPENING SCHEDULE: 5.

RCO will be opened on due date and time as mentioned in (Annexure-III) point B in the presence of the representative of firms who wishes to be present. However if the date and time of opening of Technical Bid is changed due to any unforeseen reason the revised date and time of opening will be displayed on Portal/website of the corporation. No corrigendum

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6. MODUS OPERANDI FOR THE PURCHASE & SALES OF THE ITEMS & QUOATING RATES BY BIDDER:

- (i) MP AGRO will buy material for onward sale to various Govt. Deptt. as per demand/requirement.
 (ii) Bidders are required to sweet it.
- (ii) Bidders are required to quote their selling rate to MP AGRO with the intention that MP AGRO will load its own margin (5% + GST) to the prices quoted by Bidders.
- (iii) Bidders are required to upload their rates in the format prescribed for it. Shown in the financial Bid.
- (iv) Rate list to be uploaded will be rates with GST & rate without GST.
 (v) Rates offered to MR AGRO.
- (v) Rates offered to MP AGRO should not be treated as rates to end user. Instead MP AGRO will work as dealer of the manufacturer. Manufacturer will service & stocking purposes etc. Manufacturer can also incur expenses for (vi) On the several agents.
- On the several occasions manufacturers do not quote lower rate to MP AGRO due to Price fall Clause executed by them with other organization. Organization (for ultimate consumer) must be differentiated clearly that rate (vii) MP AGRO will be at the consumer.
- (vii) MP AGRO will be at full liberty to reduce or increase its margin at any time without consent from bidder. Managing Director Decision will be final &
 (viii) The bidder should and the standard process.
- (viii) The bidder should quote their lowest price, in accordance to the prevailing rates of the company to their other authorized dealer etc. Dealer rate may be decided by the Pradesh.
 (ix) M.P. Agro would like to
- (ix) M.P. Agro would like to execute agreements with all other eligible participants on the lowest rates, if they wish to do so.

7. ACCPTANCE OF OFFER FOR RATE CONTRACT:

The Counter offer will be issued by the Corporation only to those offrers whose offer rates are within the limit of L-1+15%.

8. <u>EXECUTION OF AGREEMENT</u>:

- (a) The Corporation will intimate the successful Bidder regarding acceptance and request him to execute the agreement in given time limit. In case the Bidder along with the RCO shall stand forfeited.
 (b) The successful Bidder
- (b) The successful Bidder shall have to execute an agreement as per **Annexure**-purchase by the Bidder)

 The successful Bidder shall have to execute an agreement as per **Annexure**-purchase by the Bidder)

 The successful Bidder shall have to execute an agreement as per **Annexure**-purchase by the Bidder)

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9. <u>EARNEST MONEY DEPOSIT</u>:

- A. (i) RCO should accompany EMD as per clause C (Annexure-III)
 - (ii) Earnest Money of all unsuccessful Bidders will be returned.
 - (iii) No interest is payable on the amount of Earnest Money at the time of refund.

B. <u>Earnest Money shall be forfeited if :-</u>

- (i) Deposit (EMD) is liable to be forfeited if the bidder withdraws or amends or impairs or derogates from the bid in any respect within the validity of the bid or is open for acceptance whether originally fixed or extended.
- (ii) No interest shall be payable by the Purchaser on the Earnest Money/Bid Guarantee to the Bidder.
- (iii) The Earnest Money shall remain deposited with the Purchaser during the validity period as mentioned, from the date of opening of RCO. If the validity of the offer is extended, EMD validity period deemed extended.
- (iv) Earnest money of successful Bidder will be adjusted as Security Deposit (SD) on execution of the agreement. (such Bidder will became supplier).

10. <u>SECURITY DEPOSIT</u>:

- (i) The SD will remain with the corporation during the currency of the contract and till successful execution of all the order placed during the currency of the contract and will be refunded to the supplier without interest in case of no Corporation /purchasing officer.
 (ii) Security denosit will be for the corporation during the currency of the contract
- (ii) Security deposit will be forfeited in case of failure of supply of the material as mentioned in the purchase order, in time and as per the approved specifications, or for any breach of terms and condition of the agreement and RCO document.

11. MINIMUM TECHNICAL SPECIFICATIONS OF ITEMS

Minimum Technical specifications of the items covered in this RCO are the same as they are defined in (Annexure - III).

12. PLACEMENT OF ORDER

Head Office / Regional Manager / Branch Manager of the Corporation shall place purchase order to the approved supplier.

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13. SCHEDULE AND MODE OF SUPPLY / DELIVERY

The Bidder has to supply and deliver the ordered quantity within time period as mentioned in the Administrative Sanction issued by the District Collector or the order issued by the Regional Manager of the Corporation Failure of the Supplier for timely supply, or NON Supply of the material shall lead to forfeiture of Security Deposit and the RCO shall stand cancelled and agreement shall be terminated and Supplier shall be black listed/ debared from supplies through the corporation for 1-5 years. Corporation can also claim loss of goodwill as deemed fit and the same shall be payable by the Bidder. MP Agro shall not be liable toward the first manufacturer. In case the manufacturer is unable to supply or refuses to supply the RCO Material as per the work order issued by MP Agro, then in such a case the Work order may be Cancelled and the material can be procured from any other Registered vender and difference amount if any may also be recovered from the original Vendor.

- (a) If the indenting authority suffers any loss due to inordinate delay in effecting supply/ dispatch or arrival of the material at the destination, the same shall be the responsibility of the Bidder who shall make good the entire loss suffered by the indenting authority. The Managing Director will assess and intimate the Bidder the extent of loss, and the same will be acceptable to the Bidder. The supplier shall ensure that the ordered material being supplied by him reach the consignee at destination in good condition. As such it will be the sole responsibility of the supplier to ensure desired quality and standard of the material.
- The ordered item as specified in order shall be in conformity with approved size and quality specifications mentioned in **Annexure-IV**, of the RCO and elsewhere in the RCO documents. Material shall be supplied in batches in any or all the sizes and in quantities as per delivery schedule ordered by the ordering authority of the Corporation. The delivery schedule may however be revised by the ordering authority, if warranted by exigency of the work of the Corporation. The successful Bidder shall be bound to effect deliveries in accordance with the changed supply schedule without claiming revision in reaches the required destination.

 (c) Ordered item may required to be a conformed with the consignment of the consignment in the consignment in the consignment is a conformed to be a conformed to be a conformed to the consignment in the consignment is a conformed to the consignment in the consignment is a conformed to the consignment in the consignment is a conformed to the consignment in the consignment is a conformed to the consignment in the consignment is a conformed to the consignment in the consignment is a conformed to the consignment in the consignment is a conformed to the consignment in the consignment is a conformed to the conformed to the consignment in the conformed to t
- Ordered item may required to be supplied to the consignee through District Manager office of the corporation as per dispatch order to be given by the Regional Manager of the Corporation, securely packed so as to withstand rough handling and protection from vagaries of nature during transit.

 (d) Relevant Delivery Challen shall be contained.

(d) Relevant Delivery Challan shall be sent free and direct to the consignee (s) freight paid. The order No. of Corporation should be mentioned in the bill, (e) The M.P. State Agra Industrial Supplied.

(e) The M.P. State Agro-Industries Development Corporation Limited shall not be responsible for damages, losses, thefts, pilferage, fire, accidents and shall be borne by the supplier.

(f) The dispatch of consignment of the consignment during transit and these

(f) The dispatch of consignment shall be immediately communicated to the indenting Regional Manager/Distt. Manager of Corporation and consignee (g) Transit Insurance: The Supplies

(g) <u>Transit Insurance:</u> The Supplier will arrange for Transit Insurance and Material supplied should be covered under Transit insurance for Road Risk, Theft, Pilferage, and Non Delivery Risk (RRTPND).

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14. WARRANTEE:

The Bidder has to declare minimum 2 Years warrantee. Item supplied by the supplier against any manufacturing defect from the date of Supply and Installation. In case of complaint / defect the supplier shall have to arrange repair /replacement within 10 days from the date of receipt of intimation. The Corporation shall have right to recover the cost or expenditure of loss whatsoever, on this account from the future bills of the supplier or from the security deposit or from any other amount due to the supplier or out of the security or any deposit made by the supplier in other Government Organization. The Corporation can also Blacklist the Supplier and debared the supplier from doing the business with the corporation for 1-5 years.

Warranty of Tyre Tube will be as per company rules. if any defect occur in the Tyre Tube within the Warrantee Period then it will be replaced by the Vender. Remolded Tyre will not be allowed at any cost .

15. TRAINING:

If required the supplier will impart training to the selected nominated person of purchaser and the concerned person/staff/officers of the Corporation for proper operation and maintenance of Items Supplied.

16. AFTER SALE SERVICE:

- a. The company must provide after sales service to the beneficiary for during warranty period.
- b. It shall be the responsibility of the supplier to ensure that necessary spares parts are available to the purchaser/customer of Items during warranty period and after words also. For this purpose Bidder shall keep necessary stock of such fast/slow moving parts on consignment with this corporation {MP Agro} or their stockiest. Quantity and location of stocking points of such items shall be decided by the Bidder as per advice of Regional Managers of this corporation.
- c. Supplier shall also ensure that proper after sales services are available to the customers.
- d. The supplier shall also make arrangements for repair and after sale service required on continuous basis after expiry of the warranty period and shall ensure that the repairs/maintenance cost incurred by the purchaser are minimum.

17. RIGHT TO REFUSE/REJECT THE SUPPLIES:

- Ordered item shall conform to the quantities specifications (as per Annexure-IV) mentioned in supply order. The Corporation reserves the right to refuse to accept the supplied item, if found:-
 - (i) Inferior in quality & not in proper packing or not conforming to the specifications mentioned in **Annexure-III**
 - (ii) Other than specified and ordered by the Corporation, OR
 - (iii) For any other sufficient reason at it's discretion.
- (b) In case the supply of supplied item is rejected / the supply not accepted, shall be lifted by supplier at his own cost within the period granted by the M. P. State Agro-Industries Development Corporation Limited and in no case Corporation shall be liable for the supply not accepted.
- (c) If the material fails in the testing

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18. <u>DEFECTIVE SUPPLIES:</u>

The supplier shall replace the defective material or any other part found defective or prematurely worn out within 7 days within warranty period from the date of sale to the consumer at free of cost. If it is proved that Bidder has intentionally supplied machine/equipments of improper quality or not ready to replace or had not replaced defective machines / equipments during the specified period or in a genuine time period as required minimum, corporation shall be free to black list the Bidder and debar the supplier from doing the business with the corporation for 1-5 years and forfeite the Security Deposits Bidder shall be bound to refund the amount received in lieu of such defective supplies made by the Bidder.

19. PAYMENT:

The Corporation will make the payment normally within 15 days on payment after payment condition to the supplier only after receipt of bills along with copy of received challan, GEO TAG photo graph and Third party inspection report duly signed by the consignee / beneficiary.

20. PRICE ESCALLATION CLAUSE:

The variation in price is allowed if any variation is occurred in GST slab & any levies/taxes by Regulatory authority. Bidder may revise rates accordingly under intimation to corporation.

21. RANDOM TESTING OF COMPONENTS:

Corporation may select sample by random checking of any or all components of System received at the destination / site and send it to any recognized institute for testing. The cost of such testing including cost of material shall be borne by the supplier.

22. BRAND NAME:

The Bidder is entitled to claim only one brand name for the purpose of this contract. Regarding brand name, certificate of brand name, if any, issued by competent authority for this purpose should be made available, however the Corporation will not be liable for any dispute on account of brand name or of any kind.

23. SUBMISSION OF REQUIRED DOCUMENT:

It is obligatory for the Bidder to submit all the necessary documents as mentioned in **Annexure-V** and mentioned elsewhere in RCO document. All formats should be filled in completely. **All the necessary documents should be enclosed duly self-attestation.**

24. ACCEPTANCE/REJECTION OF RCO:

The Managing Director of the Corporation reserves the right to accept or reject any or all the RCO without assigning any reason whatsoever at any time prior to the award of the contract, without incurring any liability to the affected Bidder and any obligation to inform the affected Bidder of the grounds.

All the offers shall be examined on the basis of bid and supporting documents submitted online and in case, any of the documents is not in readable/printable form, the offer may be rejected without intimation to the offerer. Please ensure to uploaded clear and proper documents while submitting the bid.

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25. **FORCE MAJEURE CLAUSE:**

FMC will applicable in the following circumstances -

Natural phenomenon including but not limited to weather condition, floods, (a) draught, earthquake and epidemics. (b)

Acts of government authority domestic or foreign including but not limited to war declared or properties, quarantine restriction.

Accidents or distraction including but not limited to fire, explosion break (c) downs at essential machinery equipment and power shortage.

26. **PURCHASE PREFERENCE:**

The following rules are applicable only on those items & product which will be approved by committee constituted by M.P. Govt. store purchase rule 2015 (revised 2022) against rule 31 as per store purchase rule.

In case lowest rate received from the Bidder situated out of Madhya Pradesh. As per the provision made in State Purchase rule 25 to 50 percent (according to the production capacity) will be placed with bidder/bidders whose Production unit situated in Madhya Pradesh (Micro/ Small Industries) and who quoted Rates in bend of L-1+15% (First three bidders of Madhya Pradesh), only if, they are agreeable to supply the material in time and on lowest rate so received. Price preference of any kind will not be allowed (This clause will be applicable to only those Manufacturers of Madhya Pradesh if the place of Manufacturing is situated in Madhya Pradesh)

As per the policy of the State Government in respect of purchase of items (b) through Micro / Small Industries purchase preference, minimum to the extent of 4% out of 25% of the required quantity shall be given to those manufacturing units of M.P belonging to the SC/ST entrepreneurs. A selfcertified copy of certificate issued by the District Trade Industries Center (D.T.I.C) in this regard should be attached at the time of submission of tender.

Price preference of any kind will not be allowed.

As per the policy of the State Government in respect of purchase preference, (c) minimum to the extent of 3% out of 25% of the required quantity shall be given to those manufacturing units of M.P belonging to Female entrepreneurs (Ownership). Preference will be given to Micro / Small Industries run female Self Help Group A self-certified copy of certificate issued by the District Trade Industries Center (D.T.I.C) in this regard should be attached at the time of submission of tender. Price preference of any kind will not be allowed.

27. TO IMPOSE PENALTIES:

In case the supplier does not produce the ordered material within the specified time

limit the penalty will be imposed as under

no	WEEKS	Rate of penalty imposed
1	1 st to 2 nd week	0.25% per week
2	3 rd to 4th week	0.50% per week
3	in Case the supplier refuse to supply the ordered material	Cancelling the supply order Cancelling the supply order and termination of Agreement and Black listing for 1-5 years.

CORPORATION AS DEALER: 28.

Corporation shall become Authorized Dealer of the company after execution of agreement with the company during the currency of Rate Contract.

29. ARBITRATION:

As far possible, all dispute arising out of this agreement will be settled by the mutual discussion and decision taken by the General Manager marketing of the corporation will be final and binding on both the parties.

In case dispute is not settle as above then the same shall be referred to the arbitration. Arbitration and conciliation Act, 1996 shall apply to the proceedings before the Managing Director of the Corporation who shall be sole arbitrator. The decision of the arbitrator shall be final and binding on the parties. Venue of Arbitration shall be Bhopal and shall be governed by Arbitration and Conciliation act, 1996.

30. RCO EVALUATION:

During RCO evaluation, MP AGRO may, at its discretion, ask the Bidder for a clarification of its RCO& documents attached thereto. The request for clarification and response shall be in writing or verbal.

31. VALIDITY OF RCO RATES:

The rates finalized against this RCO shall be valid for a period of 3 (three) months from the date of issue of first circular for approved rates. The MP Agro have rights to cancel the approved rates and/or RCO even before completion of its validity period. It are circulated.

32. MINOR MISTAKES IN RCO:

M.P. AGRO may waive any minor nonconformity, or irregularity in a RCO document that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder. Right to waive mistake shall remain with Managing Director of MPAGRO.

33. TRANSFERABILITY:

RCOs are not transferable.

34. RIGHT TO ACCEPT OR REJECT RATE CONTRACT OFFER:

MP AGRO reserves the right to reject or accept any rate contract in whole or in part on account of credentials, technical capability, past performance or any other evaluation criteria to ensure uninterrupted supply of material. The decision of MP AGRO in this regard will be final and MP AGRO is not liable to assign any reasons for the decision.

35. PARALLER RATE CONTRACT:

MP AGRO reserves the right (a) to enter into parallel rate contract(s) simultaneously or at any time during the period of the rate contract with more Bidders as MP AGRO may think fit, and (b) to place ad-hoc contract or contracts simultaneously at any during the period of this contract with more supplier(s)/Bidder(s) for such quantity and such item as the competent authority of MP AGRO (whose decision shall be final) may determine.

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36. **INSPECTION FOR QUALITY:**

MP AGRO or their authorized representative shall have the power:

Third party inspection of RCO items by those Government Agency which approved by Quality Council of India /N.A.B.C.B. such as DGS&D (under Department of commerce & industries Govt of India), RITES (Enterprises of Department of Railways Govt of India), PDIL (Organization under Department of Chemical and fertilizer Govt of India), ICAR - CIAE (Institute under the Department of Agriculture Govt of India), EIC (under Department of commerce & industries Govt of India), CIPET (under Department of Chemical and fertilizer Govt of India), EIL (Public Enterprises under petroleum & Natural gas Department Govt of India),IR-Class (Subsidary firm of Indian Register of Shipping) or any Government Engineering College, any Government Technical Department or Government institution at factory address given by the bidder in annexure VI may be held before dispatch of the material and at the location where the material is supplied. The inspection cost shall be borne by the supplier.

- To certify any materials or part thereof submitted for inspection that they are not in accordance with the contract owing to the adoption of any unsatisfactory method of manufacture.MP State Agro may discretionally exercise the power to constitute a committee consisting of external subject matter experts for the purposes of inspection of materials supplied by the manufacturer. (ii)
- To reject any materials submitted as not being in accordance with the (iii)
- To reject the whole of the installment, if after inspection of such portion thereof as it may in its discretion thinks fit, it is satisfied that the same is unsatisfactory.
- The Inspecting Officer's decision as regards the rejection shall be final and (iv) (v)
- MP AGRO reserves the right to inspect the materials to be dispatched / in Transit / already delivered at any time and at any where. MP AGRO also have rights to inspect the raw materials used for manufacturing, process of manufacturing, quality policy fixed and testing facilities for the product to be supplied by the supplier at the supplier's premises. (vi)
- Cost of Test: The supplier is liable to pay for any Test done on the product
- supplied for conformity on quality.

37. RISK PURCHASECLAUSE:

MP AGRO reserves the right to make emergent purchase in case of failure of supply/ rejected supply either in part or full as per demand placed by the MP AGRO and amount paid of such purchases should be adjusted from the supplier's Bill and may a)

The occurrence of such events 3 times during the contract period will lead to cancellation of contract by MP AGRO at any time after serving warning on each such event. The cancellation of contract will automatically come into effect from the last working hour of a scheduled delivery date after serving the last warning. On such event of cancellation the supplier will be black listed and will not be allowed to participate in any RCO / supply contract for a period of one year. On event of cancellation of contract the security deposit available with MP AGRO for the contract will be forfeited.

38. WITHHOLDING AND LIEN IN RESPECT OF SUMSCLAIMED:

Whenever any claim or claims for payment of a sum of money arises out of or under the contract—against the Contractor, MP AGRO shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from security, if any, deposited by the Contractor and for the purpose aforesaid, MP AGRO shall be entitled to withhold the said cash security deposit or the security, if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claims. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the Contractor, such claimed amount or amounts, from any sum or sums found payable or which at any time thereafter may become payable to the contractor under the same contract or any other contract with MP AGRO pending finalization or adjudication of any such claim.

39. CORRUPTPRACTICES:

Supplier is expected to observe the highest standard of ethics during the execution of this RCO. If the supplier has engaged in corrupt or fraudulent practices, in competing for or in executing the contract, MP AGRO may, after giving 14 days notice to the supplier, terminate the Contract. In pursuit of this policy, MP AGRO:-

- Defines, for the purposes of this provision, the terms set forth below as follows:
 - "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action in the procurement process or in Contract execution; and
 - "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of MP AGRO and includes collusive practices among listed for participating in the bidding process, to establish bid prices at artificial, non-competitive levels and to deprive MP AGRO of the benefits of free and open competition;
- Will reject a proposal for award if it determines that the Bidder being considered for award has engaged in corrupt or fraudulent practices in
 In the same manner.
- c. In the same manner as above, if bidder observes any corrupt practices or "fraudulent practice" in MP AGRO, he should report to Managing Director only.

40. BREACH OF CONTRACT:

Any breach of the terms & conditions mentioned in this RCO document by the Supplier, or any one employed by him or acting on his behalf (whether with or without the knowledge of the Supplier) or the committing of any offence by the Supplier or by any one employed by him or acting on his behalf under Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1988 or any other act enacted for the prevention of corruption by public servants shall entitle MP AGRO to cancel the contract and all or any other contracts with the Supplier and to recover from the Supplier the amount of any loss arising from such cancellation.

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41. TERMINATION OF CONTRACT AND BLACK LIST OF SUPPLIER:

MP AGRO may terminate of Contract or Black list of supplier in the following event

- Breach of any of the terms or conditions or obligation of Contract on part of Supplier / his employees /agents.
- (ii) Any major material alteration in the agreed upon specification (if any) of the product to be supplied without the authorization of MP AGRO and / or competent authority or non supply or delay in supply in the reference of point no 27.
- (iii) MP AGRO at their discretion may call for any record to satisfy themselves regarding supply of material to catering units. The supplier shall provide every help/ document related to MP AGRO, .0 failing which it may amount to breach of condition of the contract.
- (iv) The Supplier being adjudged bankrupt/ insolvent or a trustee/ receiver being appointed on the Supplier.
- (v) Repudiation of agreement by Supplier or otherwise evidence of intention not to be bound by the agreement.
- (vi) MP AGRO at their discretion may call for any record to satisfy them regarding the supply and Supplier will provide every help failing which it may amount to breach of condition of the Contract.

42. AMENDMENTS TO BID INVITATION:

The MP AGRO reserves the right, to make revisions or amendments to the bid documents, when deemed necessary, prior to the closing date of the bid, through proper notification or web-site. The bidders must watch MP AGRO web site for any such amendments. The MP AGRO shall be at liberty to consider extending the date set for the bid opening by such a number of days as in the opinion of the MP AGRO will seems necessary.

43. **NEGOTIATIONS**:

- (i) It is clarified that normally the Corporation will make no negotiation on the RCO and therefore the Bidders should quote their lowest prices only. However the Managing Director of the Corporation may decide to give counter RCO of the lowest rate as decided by him.
- (ii) On the basis of lowest rate received in the financial bid corporation will ask other bidders to execute agreement provided other bidders are agreed to it.

44. <u>AUTHORITY TO SIGN BID DOCUMENTS:</u>

A person signing the RCO or any other document in respect of the Contract on behalf of the supplier without disclosing his authority to do so shall be deemed to warrant that he has authority to bind the Supplier. If it is discovered at any time that the person so signing has no authority to do so, MP AGRO may, without prejudice to any other right or remedy of MP AGRO, cancel the contract and make or authorize making of a purchase of the materials at the risk and cost of such person, and hold such person liable to MP AGRO for all costs and damages arising from the cancellation of the contract including any loss which MP AGRO may sustain on account of such purchase.

45. Only Bhopal Court shall have jurisdiction.

MANAGER (MARKETING)

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ANNEXURE - VIII

THE MADHYA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED

LETTER OF UNDERTAKING AND DECLARATION

We
We undertake to supply and the Specifications as mentioned in RCO.
We undertake to supply such quantities of material as per Specification as mentioned in RCO, as we may be called upon to supply and install under the conditions here-to enclosed during the allotted period from the date of execution of the agreement on the rates agreed upon, at the places to be specified by the M.P. State Agro Industries Development Corporation Limited within the specified delivery period.
We undertake that our firm has neither been Blacklisted/Debarred by any Government / Government Undertaking /Bank nor penalized on the same ground. We also undertake that no legal proceeding is pending in any Courts on the same grounds.
We hereby agree to abide by and fulfill all the terms and conditions of contract annexed hereto and in default thereof to forfeit and pay to the M.P. State Agro Industries Development Corporation Limited, the penalties or sum of money mentioned in the said conditions.
The sum of Rs. 1,00,000.00 (One Lac only) in the form of Demand draft or any of the form specified in the Rate Contract RCO Documents is herewith forwarded as Earnest Money which shall be retained by The MP State Agro Industries Development Corporation Limited, on account of Security Deposit as specified in the clause 9 of the said conditions of contract, should this RCO be accepted.
"I have read and fully understood the terms and conditions of supplies etc. mentioned in the documents.
Name :
Designation:
(Signature with Office Seal)
Witness: 1.
2.
THE RATE CONTRACT RCO IS HEREBY ACCEPTED BY ME ON BE HALF OF M/s
SIGNATURE OF THE ACCEPTING ATHURITY

Note: Letter of acceptance of RCO is to be submitted on non judicial stamp of Rs 500.00

ANNEXURE - IX



THE MADHYA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED

"PANCHANAN" 3rd FLOOR, MALAVIYA NAGAR, BHOPAL Phone (0755)- 2551652, 2551756, 2761392, Fax: 0755-2557305

FINANCIAL BID FORMAT

	ENAMOTAL BID FORMAT						
S. N.	ITEM DESCRIPTION	UNIT	HSN CODE	BASIC	GST %	GST Amount	PURCHASE PRICE TO MP
	S. WATER TANKER						AGRO
1.	M.S. WATER TANKER MOUNTED ON						
	CAPACITY 5000 LITER WITH 900x16 NEW TYRES .MODEL - 1	Each	HSN CODE 871631		@18%		
3.	M.S. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH NEW 900x20 TYRES. MODEL - 2	Each	HSN CODE 871631		@18%		
4.	M.S. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5500 LITER WITH 900x16 NEW TYRES. MODEL - 3	Each	HSN CODE 871631		@18%		
	M.S. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5500 LITER WITH 900x20 NEW TYRES. MODEL - 4	Each	HSN CODE 871631		@18%		
5.	M.S. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH FIRE FIGHTING PUMP AND 900x16 NEW TYRES. MODEL - 5	Each	HSN CODE 871631		@18%		
6.	M.S. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH FIRE FIGHTING PUMP AND 900x20 NEW TYRES. MODEL - 6	Each	HSN CODE 871631		@18%		

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G	.1. WATER TANKER				
7	G.I. WATER TANKER MOUNTED ON				
	TWO WHEEL TRACTOR TRAILER CAPACITY5000 LITER WITH 900×16	Each	HSN CODE 871631	@18%	
	NEW TYRES. MODEL - 7				
8	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH NEW 900x20 TYRES. MODEL - 8	Each	HSN CODE 871631	@18%	
9	G.I. WATER TANKER MOUNTED ON				
	TWO WHEEL TRACTOR TRAILER CAPACITY5500 LITER WITH 900x16 NEW TYRES. MODEL - 9	Each	HSN CODE 871631	@18%	
10	G.I. WATER TANKER MOUNTED ON		LICN		
	TWO WHEEL TRACTOR TRAILER	Each	HSN CODE	@18%	
	CAPACITY 5500 LITER WITH 900x20		871631		
11	NEW TYRES. MODEL - 10				
111	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER	Each	HSN CODE	@18%	
	CAPACITY 5000 LITER WITH FIRE FIGHTING PUMP AND 900x16 NEW TYRES. MODEL - 11		871631		
12					
	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 5000 LITER WITH FIRE FIGHTING PUMP AND 900x20 NEW TYRES. MODEL - 12	Each	HSN CODE 871631	@18%	
13					
	G.I. WATER TANKER MOUNTED ON TWO WHEEL TRACTOR TRAILER CAPACITY 4500 LITER WITH WATER PURIFIER, SOLAR WATER PURIFIER AND 900x16 NEW TYRES.	Each	HSN CODE 871631	@18%	
	MODEL - 13				

Seal & signature of the Bidder

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DECLARATION OF BLACKLISTING

I/We M/S
I/We nor our Start-up or a parent, subsidiary or associate Company under direct or indirect
common parent is/are presently nor in the past been placed on any Black list
Debar/Penalized by any Public Sector Company in India or by any Department of State or
Central Government and that there is no pending inquiry by any Public Sector Company in
India or by any Department of State or Central Government, against us or a parent
subsidiary or associate Company as oferential Government, against us or a parent
subsidiary or associate Company as aforesaid in India, in respect of criminal, corrupt or fraudulent practice(s), is NIL.

It is understood that if this Declaration is found to be false, MP AGRO shall have the right to reject my/our proposal, and if the proposal has resulted in an investment, the investment agreement is liable to be terminated without prejudice to any other right or remedy (including Black list / Debar/Penalized) available to MP AGRO.

Place:

Date:

Seal & Signature of the Bidder or their authorized Representative

NOTE: This declaration should be furnished on company's "Letter Head"

DRAFT AGREEMENT

(THIS AGREEMENT TO BE FURNISHED AFTER THE BID IS ACCEPTED ON NON JUDICIAL STAMP RS. 1000/-)

This agreement made at Bhopal this day of, between The Madhya Pradesh State Agro-Industries Development Corporation, having registered office at 'Panchanan, 3rd Floor, Malviya Nagar, Bhopal, M.P. hereinafter referred to as 'Corporation' which expression shall unless repugnant to the context or meaning there of include its successors and assigns on the one part.
AND
M/shaving its office at
which expression unless repugnant to the context and meaning there of includes its assigns, successors and administrations on the other part.
WHEREAS the Corporation invited Rate Contract RCO for supply of
AND WHEREAS the supplier has accepted each and every term and condition contained in the Rate Contract RCO Document, while submitting his RCO. The supplier has agreed to supply of quality materials and equipments on consignment basis on the terms and conditions of this agreement to the Corporation.
AND WHEREAS the Corporation accepted the RCO submitted by the supplier vide its letter of acceptance no
92.5.2024 :: 02 :: नितिन मोहगांवकर
नितिन मोहगांवकर

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28

- The terms & conditions of the Rate Contract Document a)
- Specifications of material b)
- The letter of acceptance dated ----c)
- d) The RCO submitted by the supplier.
- The rates mentioned in annexure to agreement. e]

The aforesaid documents shall be taken as complementary and mutually explanatory of one another but in case of discrepancies and ambiguities shall take precedence in the order set out above. In this regard the decision of Managing Director, M.P. State Agro-Industries Development Corporation Limited shall be final.

For Supplier	
	For
	M.P. STATE AGRO INDUSTRIES
	DEVELOPMENT CORPORATION LTD

Signature with Office Seal

MANAGER MARKETING

Witnesses

1.

2.

ANNEXURE - XII

FORMAT FOR C.A. CERTIFICATE FOR TURN OVER

	We have verified the books of a	ccounts and other relevant records of M/s
and	explanation given to us, we certify	ccounts and other relevant records of M/s Based on my verification and as per the information financial turnover for Fabrication Items of M/sder :-
	cto un	del :-
	Year	Turnover Rs In Lakhs
	Financial Year 2020-21	
	Financial Year 2021-22	
	Financial Year 2022-23	
	Total	
	:	For Charted Accountant Seal and Signature UDIN No.
		itted on CA's letter head)

FORMAT FOR SIGNING AUTHORITY ON THE FIRMS LETTER HEAD

To,

The Manager, M.P.S.A.I.D.C, Illrd Floor, Panchanan Bhavan, Malviyia Nagar, Bhopal.

Sub: Regarding signing authority.

I/We					
I/We Proprietor/ Partner/ Board of Director of the firm M/s having office at					
having office at		•••••	• • • • • • • • •		
having office at	hereby	author	rise o	our emplo	yee
named Shri holding the in the RCO and related document on behalf of the firm.	e position o	f	••••••	to s	sign

Signing person on the document Name:

Designation and Seal.

Attested and authorised by :-

Proprietor/ Partner/ Board of Director. Name:-Designation and Seal

Seal of the Firm

TECHNICAL SPECIFICATIONS

M.S. WATER TANKER MOUNTED ON TWO WHEEL AGRICULTURE TRACTOR TRAILER CAPACITY 5000 Lit. & 5500 Lit. WITH 9.00X16

1. Chassis:

The chassis shall be fabricated as per standard practice to mount the M.S. Tank. All the joint shall be welded properly as per standard practice. The chassis frame have two longitudinal members having 150 x 75 mm. (ISMC) channel section or Auto channel and 5 cross member of the channel having 150 x 75 mm. (ISMC).

The overall approximate dimensions of various tanker trolley chassis shall be as under :--

S. No.	Approximate Capacity	Length	Width
1.	5000 Liter.	3450 mm.	1000 mm.
2.	5500 Liter.	3450 mm.	1000 mm.

2. Draw Bar (Chassis):

Draw Bar shall be centrally fitted in Box or Triangular v shape welded together made out of MS channel of size 150 x75 mm. (ISMC) channel section or Auto channel with eye hook made out of 40 mm. diameter MS round bar.

3. Axle Assembly:

Axle shall be made from solid square bar of 75 mm or 85 mm hollow square tube section with both the end machined and threaded and provided with iron hubs with 8 holes and minimum 20 mm. thick with hexagonal lock nut, fitted with twin taper roller bearing no. 32213 & 32216 provided with grease nipples for greasing the moving parts.

4. Leaf Spring:

Two set of leaf spring consisting of 19 leaves of size 70×10 mm. minimum 900 mm. long (distance between two pin) of alloy steel shall be provided. These leaf spring shall be fixed with frame by means of complete cast iron/Steel bracket assembly.

5. Tyre Tubes & Wheel Assembly:

Two number of New tyres 9.00 x 16 with tube & flap assembly of slandered make (MRF, Ceat, Herculas, JK, Apolo, Birla, Modi, Michigan, Goodyear, SHBridgestone, Yokohama etc) shall be provided with double plated rim 5 mm.

ARTERED ENTRICK With 8 No. of holes. Remouleded Tyres will not be allowed at any cost.

WSURANCE SURVEYOR - SLA - 71673

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Dr. Albem C. Tiwari

32

Shell of the Water Tanker :--

The water tanker should have capacity of approximate 5000 lit. and 5500 liters, manufactured in semi elliptical shape. The tank shall be made out of 3.0 mm. thick MS sheet, and maximum number of plates are not more than 4 No., End plates of the tank shall be made of 3.00 mm thick M.S. sheet with maximum in joint of two No. plate.

No.	Approximate Capacity	Major Axis	Minor Axis	Length
1.	5000 Liter.	1675 mm.	1275 mm.	3000 mm.
2.	5500 Liter.	1710 mm.	1310 mm.	3100 mm.

7. Baffle Plate :--

One baffle plate made of 3.00 mm. shall be provided inside the tank over center reinforcement (plus shape) shall be properly welded with the two angle in plus position touching major & minor axis peak points. The height of the baffle plate shall be just 20 c.m. above over half of the minor axis of the tank.

8. Reinforcement or Grooving :--

The tank shall be reinforcement from inside by welding three number of elliptica rings made of $40 \times 40 \times 6$ mm. M.S. angle on both ends and one in between at suitable distance or making minimum three grooves or grooved strips on the entire circumference of the shell by press machine.

9. Manhole:--

One manhole with hinged cover shall be provided at the top of the tank. The cover of the tank shall be fabricated by 3.00 mm thick M.S. sheet. The collar of the cover and manhole shall be made out of 4.00 mm. MS strip. Locking arrangement for cover shall also be provided. The man hole cover shall be such fabricated so that no foreign material may not enter in the tank.

The shell of the tank shall be rested on the chassis by means of six number of suitable fabricated shoes (box type bracket) of 4 mm. thick plate or molded having 2.5 mm. plates. sheet brackets guide made out One ladder shall be made of $25 \times 25 \times 3$ mm I.S.A. or fabricated foot rest on the front end plates with handle.

10. Pump set stand :--

Pump Set Stand shall be made of 150 x 75 mm. (ISMC) channel or Auto schannel suitable for pumps.

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Dr. Asaem C. Tiwari Prof. & Mass (Mech) UIT, PSPV





11. General requirements of all types of Tanker:--

1. Outlet:--

63 mm. NB class "A" GI nipple of 1 cm length (minimum) be provided at the rear of the tank along with required 75 mm cast Iron/steel ball valve/PVC Ball valve.

2. Painting & Finishing

The tanker should be spray painted, with priming coat of red oxide and two coat of synthetic enamel paint and colour as desired by consignee. Interior of the tank shouldbe painted with suitable primer followed by Non-poisonous rubber paint.

3. Guarantee

The manufacturer shall furnish guarantee for one year against manufacturing defects, leakage etc., along with tender incorporating that in case of complaint they shall undertake satisfactory repair within 10 days free of coat.

4. Inspection

The quality inspection of water tanker shall be carried out by the Third Party inspection agency nominated by M.P. Agro.

5. Tolerance:--

 \pm 5% Tolerance shall be provided to overall dimension of material and \pm 5% in thickness of sheet & sections.

Note: If required minor deviation / amendment in specification may be done, after taking approval from M.P. Agro.

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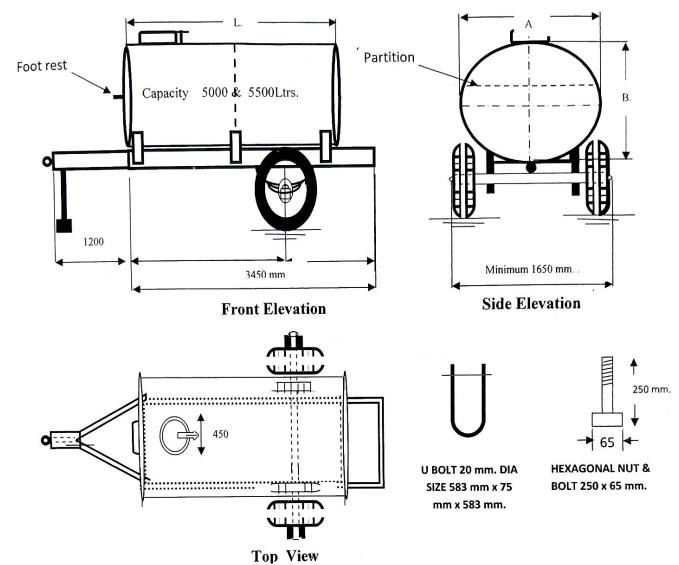
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Dr. Aseem C. Tiwari Dr. Aseem C. Tiwari Prol. & Herman



Schematic Drawing of M.S. Water Tanker

capacity 5000 lit. & 5500 Lit. with 900 x 16

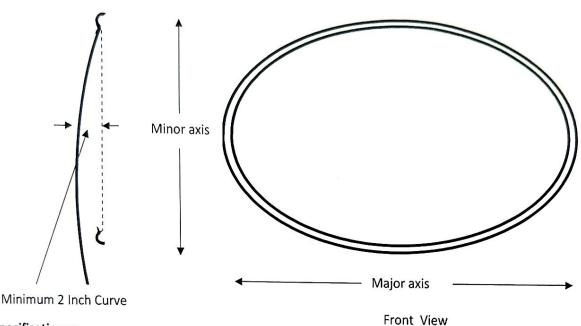


	9800 Val.		
1. TYRES TUBE & FLAP	:	2 Nos.	900 x 16
2. WATER TANKER SHELLFOR 5000 Lit	. :		1675 mm. x 1275 mm x3000 mm.
3. WATER TANKER SHELL FOR 5500 Li	t. :		1710 mm. x 1310 mm. x 3100 mm.
4. WATER TANKER SHEETTHICKNESS	:		3.0 mm. M.S. Sheet.
5. LAMINATED SPRING 19 LEAVES	:	2Set.	70 x 10 mm., Eye to Eye 900 mm.
6. CHASSIS FRAME	:		150 x 75 ISMC, L= 3400mm, W= 1000mm
7. AXLE	:	1 No.	75mm (Solid bar)/85mm (hollow)x ≥1650mm
8. DRAW BAR	;		150 x 75 ISMC , L= 1200 mm, W= 1000mm
9. U BOLT	:	8 Nos.	18 mm., 7x3x7 Inch.
10. DRAW BAR HOOK	:	1 No	Diameter 40 mm., Length 250 mm.
11. STEEL HUB	:		2 Nos 20 mm. thick, 8 hole
12 DOUBLE PLATED RIM	:	2 Nos	5 mm. thick.
13 BEARING	:	2 Set.	32213 & 32216 NO.
14 STEEL HANGER & SHACKLE	:	4 Set	As per ISMC 150 x 75 mm.
15. NET WEIGHT 5000 & 5500 Lit	:	0 4	Up to 850 Kg. Approx
16 GROSS WEIGHT 5000 & 5500 Lit.	Yelling	don STAVA	5850 Kg. & 6350 Kg. Approx
17. MAN HOLE	CHARILFO	DENGILLA VOIA	GollarW=450 mm,T= 4mm, Cover= 3mm

\$5

Design of End Plate of Tanker

End plates of tanker shall be made of 3.0 mm. M.S.sheet in a dish end shape. Sheet should be in a single piece and bend on the periphery to give strength or flat end with inside stiffener angle of 3.0 mm all around on both end.



Specifications :--

For 5000 iter.

Major axis ---- 1675 mm

Minor axis --- 1275 mm.

Dish end curve ---- Min. 2 Inch.

Welding with shell ---- Lap joint.

For 5500 liter.

Major axis ---- 1710 mm.

Minor axis --- 1310 mm.

Dish end curve ---- Min. 2 Inches.

Welding with shell ---- Lap joint.

Water distribution of Tanker :-Capacity Calculation

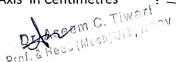
Capacity of the Tanker in Liters

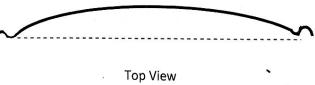
 π X Major Axis x Minor Axis

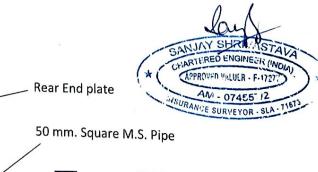
4 x 1000

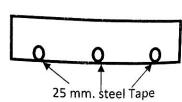
Major & Minor Axis in Centimetres











36)

model - 254

M.S. WATER TANKER MOUNTED ON TWO WHEEL AGRICULTURE TRACTOR TRAILER CAPACITY 5000 Lit. & 5500 Lit. WITH 9.00X20 NEW TYRE AND TUBE

1. Chassis:

The chassis shall be fabricated as per standard practice to mount the M.S. Tank. All the joint shall be welded properly as per standard practice.

The chassis frame have two longitudinal members having $150 \times 75 \text{ mm}$. (ISMC) channel section or Auto channel and 5 cross member of the channel having $150 \times 75 \text{ mm}$. (ISMC).

The overall approximate dimensions of various tanker trolley chassis shall be as under:--

S. No.	Approximate Capacity	Length	Width
1.	5000 Liter.	3450 mm.	1000 mm.
2.	5500 Liter.	3450 mm.	1000 mm.

2. Draw Bar (Chassis):

Draw Bar shall be centrally fitted in Box or Triangular v shape welded together made out of MS channel of size 150 x75 mm. (ISMC) channel section or Auto channel with eye hook made out of 40 mm. diameter MS round bar.

3. Axle Assembly:

Axle shall be made from solid square bar of 75 mm or 85 mm hollow square tube section with both the end machined and threaded and provided with iron hubs with 8 holes and minimum 20 mm. thick with hexagonal lock nut, fitted with twin taper roller bearing no. 32213 &32216 provided with grease nipples for greasing the moving parts.

4. Leaf Spring:

Two set of leaf spring consisting of 19 leaves of size 70×10 mm. minimum 900 mm. long (distance between two pin) of alloy steel shall be provided. These leaf spring shall be fixed with frame by means of complete cast iron/Steel bracket assembly.

5. Tyre Tubes & Wheel Assembly:

Two number of New tyres 9.00 x 20 with tube & flap assembly of slandered make (MRF, Ceat, Herculas, JK, Apolo, Birla, Modi, Michigan, Goodyear, Bridgestone Yokohama etc) shall be provided with double plated rim 5 mm. thick with 8 No. of holes. Remouleded Tyres will not be allowed at any cost.

Dr. Accom C. Tiwari

CHARTERED ENGINEER (INDIA)

APPROVED VALUER - F-1727?

AM - 074E5 12

MSURANCE SURVEYOR - SLA - 71673

6. Shell of the Water Tanker :--

The water tanker should have capacity of approximate 5000 lit. and 5500 liters, manufactured in semi elliptical shape. The tank shall be made out of 3.0 mm. thick MS sheet, and maximum number of plates are not more than 4 No., End plates of the tank shall be made of 3.00 mm thick M.S. sheet with maximum in joint of two No. plate.

S. No.	Approximate Capacity	Major Axis	Minor Axis	Length
1.	5000 Liter.	1675 mm.	1275 mm.	3000 mm.
2.	5500 Liter.	1710 mm.	1310 mm.	3010 mm.

7. Baffle Plate :--

One baffle plate made of 3.00 mm. shall be provided inside the tank over center reinforcement (plus shape) shall be properly welded with the two angle in plus position touching major & minor axis peak points. The height of the baffle plate shall be just 20 c.m. above over half of the minor axis of the tank.

8. Reinforcement or Grooving :--

The tank shall be reinforcement from inside by welding three number of elliptica rings made of $40 \times 40 \times 6$ mm. M.S. angle on both ends and one in between at suitable distance or making minimum three grooves or grooved strips on the entire circumference of the shell by press machine.

9. Manhole:--

One manhole with hinged cover shall be provided at the top of the tank. The cover of the tank shall be fabricated by 3.00 mm thick M.S. sheet. The collar of the cover and manhole shale be made out of 4.00 mm. MS strip. Locking arrangement for cover shall also be provided. The man hole cover shall be such fabricated so that no foreign material may not enter in the tank.

The shell of the tank shall be rested on the chassis by means of six number of suitable

fabricated shoes (box type bracket) of 4 mm. thick plate or molded having 2.5 mm. plates. sheet brackets guide made out

One ladder shall be made of $25 \times 25 \times 3 mm$ I.S.A. or fabricated foot rest on the front end plates with handle.

10. Pump set stand :--

Pump Set Stand shall be made of 150×75 mm. (ISMC) channel or Auto channel suitable for pumps.

WARTERED ENGINEER (INDI

APPROVED VALUER - F-1727

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Dr. Assem C. Tiwari Prof. & New J. (Mech) UIT, Ron



11. General requirements of all types of Tanker:--

1. Outlet:--

63 mm. NB class "A" GI nipple of 1 cm length (minimum) be provided at the rear of the tank along with required 75 mm cast Iron/steel ball valve/PVC Ball valve.

2. Painting & Finishing

The tanker should be spray painted, with priming coat of red oxide and two coat of synthetic enamel paint and colour as desired by consignee. Interior of the tank shouldbe painted with suitable primer followed by Non-poisonous rubber paint.

3. Guarantee

The manufacturer shall furnish guarantee for one year against manufacturing defects, leakage etc., along with tender incorporating that in case of complaint they shall undertake satisfactory repair within 10 days free of coat.

4. Inspection

The quality inspection of water tanker shall be carried out by the Third Party inspection agency nominated by M.P. Agro.

5. Tolerance

 \pm 5% Tolerance shall be provided to overall dimension of material and \pm 5% in thickness of sheet & sections.

Note :-If required minor deviation / amendment in specification may be done, after taking approval from M.P. Agro.

SANJAY SHRIVASTAVA

CYARTEREO ENGINEER (INDIA)

APPROVED VALUER - F-17277

AM - 074E5-12

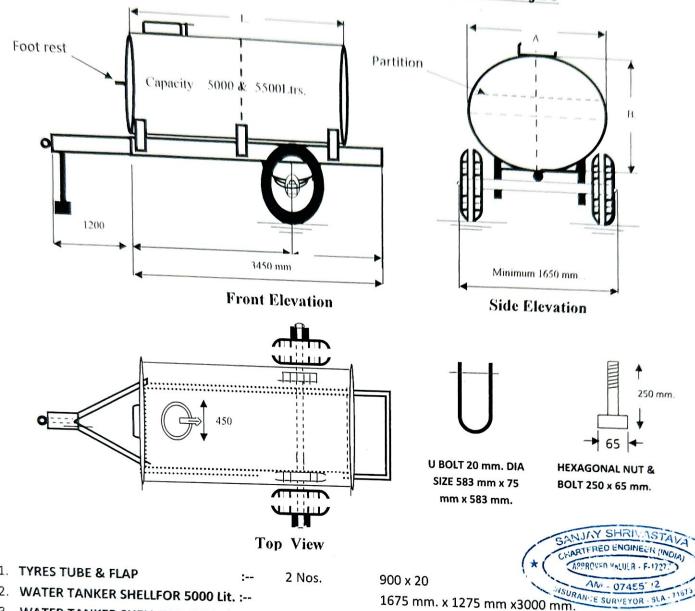
MSURANCE SURVEYOR - SLA-11613

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Dr. Assem C. Tiwari Prol. & Hess (Mech) UIT, RGPV



Schematic Drawing of M.S. Water Tanker capacity 5000 lit. & 5500 Lit. with 900х 20 Туге



1. TYRES TUBE & FLAP	:	2 Nos.	
2. WATER TANKER SHELLFOR 5000 Lit	t. :		
3. WATER TANKER SHELL FOR 5500 Li	t. :		
4. WATER TANKER SHEETTHICKNESS	:		
5. LAMINATED SPRING 19 LEAVES	:	2Set.	
6. CHASSIS FRAME	:		
7. AXLE	:	1 No.	
8. DRAW BAR	:		
9. U BOLT	;	8 Nos.	
10. DRAW BAR HOOK	:	1 No	
11. STEEL HUB	;		
12 DOUBLE PLATED RIM	;	2 Nos	
13 BEARING	;	2 Set.	6
14 STEEL HANGER & SHACKLE	:	4 Set 1	1
15. NET WEIGHT 5000 & 5500 Lit	CI-	I ASTA	1
16 GROSS WEIGHT 5000 & 5500 Lit	JAY SITE	SIMILE R COMMON	10
17. MAN HOLE	1160 mm 11	2.5.) *

1675 mm. x 1275 mm x3000 mm.

1710 mm. x 1310 mm. x 3100 mm.

3.0 mm. M.S. Sheet.

70 x 10 mm., Eye to Eye --- 900 mm.

150 x 75 ISMC, L= 3400mm, W= 1000mm

75mm (Solid bar)/85mm (hollow)x ≥1650mm

150 x 75 ISMC , L= 1200 mm, W= 1000mm

18 mm., 7x3x7 Inch.

Diameter 40 mm., Length 250 mm.

2 Nos 20 mm. thick, 8 hole

5 mm. thick.

32213 & 32216 NO.

As per ISMC 150 x 75 mm.

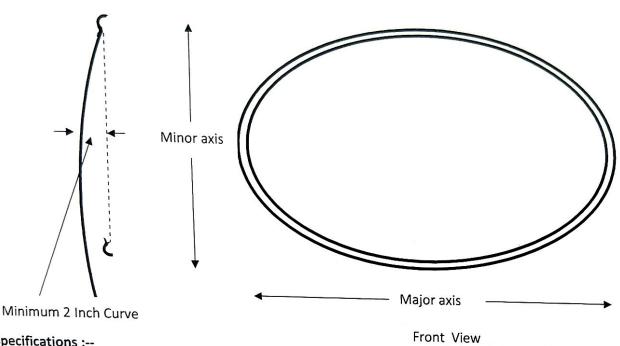
Up to 850 Kg. Approx

5850 Kg. & 6350 Kg. Approx

CollarW=450 mm,T= 4mm, Cover= 3mm

Design of End Plate of Tanker

End plates of tanker shall be made of 3.0 mm. M.S.sheet in a dish end shape. Sheet should be in a single piece and bend on the periphery to give strength or flat end with inside stiffener angle of 3.0 mm all around on both



Specifications :--

For 5000 iter.

Major axis --- 1675 mm

Minor axis --- 1275 mm.

Dish end curve ---- Min. 2 Inch.

Welding with shell ---- Lap joint.

For 5500 liter.

Major axis ---- 1710 mm.

Minor axis --- 1310 mm.

Dish end curve ---- Min. 2 Inches.

Welding with shell ---- Lap joint.

Water distribution of Tanker :--**Capacity Calculation**

Capacity of the Tanker in Liters

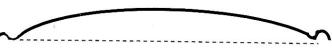
π X Major Axis x Minor Axis

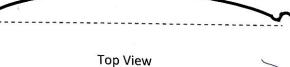
4 x 1000

Major & Minor Axis in Centimetres



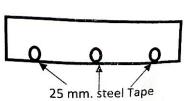












M.S. WATER TANKER MOUNTED ON TWO WHEEL AGRICULTURE TRACTOR TRAILER CAPACITY 5000 Lit. WITH900 x 16 & 9.00X20 NEW TYRE AND TUBE WITH FIRE FIGHTING PUMP & ACCESSORIES

1. Chassis:

The chassis shall be fabricated as per standard practice to mount the M.S. Tank. All the joint shall be welded properly as per standard practice.

The chassis frame have two longitudinal members having 150×75 mm. (ISMC) channel section or Auto channel and 5 cross member of the channel having 150×75 mm. (ISMC).

The overall approximate dimensions of various tanker trolley chassis shall be as under :--

S. No.	Approximate Capacity	Length	Width
1.	5000 Liter.	3450 mm.	1000 mm.

2. Draw Bar (Chassis):

Draw Bar shall be centrally fitted in Box or Triangular v shape welded together made out of MS channel of size 150 x75 mm. (ISMC) channel section or Auto channel with eye hook made out of 40 mm. diameter MS round bar.

3. Axle Assembly:

Axle shall be made from solid square bar of 75 mm or 85 mm hollow square tube section with both the end machined and threaded and provided with iron hubs with 8 holes and minimum 20 mm. thick with hexagonal lock nut, fitted with twin taper roller bearing no. 32213 &32216 provided with grease nipples for greasing the moving parts.

4. Leaf Spring:

Two set of leaf spring consisting of 19 leaves of size 70×10 mm. minimum 900 mm. long (distance between two pin) of alloy steel shall be provided. These leaf spring shall be fixed with frame by means of complete cast iron/Steel bracket assembly.

5. Tyre Tubes & Wheel Assembly:

Two number of New tyres 900 x 16 or 9.00×20 with tube & flap assembly of slandered make (MRF, Ceat, Harculas, JK, Apolo, Birla, Modi, Michigan, Goodyear, Bridgestone Yokohama etc.) shall be provided with double plated rim 5 mm. thick with 8 No. of holes. Remouleded Tyres will not be allowed at any cost.

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Dr. Aseem C. Tiwari





6. Shell of the Water Tanker :--

The water tanker should have capacity of approximate 5000 lit. and 5500 liters, manufactured in semi elliptical shape. The tank shall be made out of 3.0 mm. thick MS sheet, and maximum number of plates are not more than 4 No., End plates of the tank shall be made of 3.00 mm thick M.S. sheet with maximum in joint of two No. plate.

S. No.	Approximate Capacity	Major Axis	Minor Axis	Length
1.	5000 Liter.	1675 mm.	1275 mm.	3000 mm

7. Baffle Plate :--

One baffle plate made of 3.00 mm. shall be provided inside the tank over center reinforcement (plus shape) shall be properly welded with the two angle in plus position touching major & minor axis peak points. The height of the baffle plate shall be just 20 c.m. above over half of the minor axis of the tank.

8. Reinforcement or Grooving :--

The tank shall be reinforcement from inside by welding three number of elliptica rings made of $40 \times 40 \times 6$ mm. M.S. angle on both ends and one in between at suitable distance or making minimum three grooves or grooved strips on the entire circumference of the shell by press machine.

9. Manhole:--

One manhole with hinged cover shall be provided at the top of the tank. The cover of the tank shall be fabricated by 3.00 mm thick M.S. sheet. The collar of the cover and manhole shale be made out of 4.00 mm. MS strip. Locking arrangement for cover shall also be provided. The man hole cover shall be such fabricated so that no foreign material may not enter in the tank.

The shell of the tank shall be rested on the chassis by means of six number of suitable

fabricated shoes (box type bracket) of 4 mm. thick plate or molded having 2.5 mm. plates, sheet brackets guide made out

One ladder shall be made of $25 \times 25 \times 3$ mm I.S.A. or fabricated foot rest on the front end plates with handle.

10. Pump set stand :--

Pump Set Stand shall be made of 150×75 mm. (ISM C) channel or Auto channel suitable for pumps.

11 Fire Fighter :--

Medium duty centrifugal pump assembly is driven by pulley (Increased velocity ratio from 1 to 3) drive & connected with P.T.O. shaft of the tractor by means of propeller shaft & universal joint assembly.

SANJAY SHRIVASTAVA

APPROVED MALUER - F-1727

URANCE SURVEYOR

Size range: -- 65 mm x 50 mm.

R.P.M. :-- 1400 to 1500

Req. H.P. :-- 12.5 H.P.

Dr. Assem C. Tiwari Prof. & Hez- (Mech) UIT, RGPV

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Out let of the pump is attached with 50 mm. cotton fabric delivery pipe followed with P.V.C./ Aluminum Nozzle assembly. Inlet or suction pipe having 50/63 mm. diameter flexible green pipe followed 63 mm. PVC foot valve.

OR

6.5 H.P. engine is fitted on the rear side of chassis with rotary pump with Out let of the pumpis attached with 50 mm. cotton fabric delivery pipe followed with P.V.C./ Aluminum Nozzle assembly. Inlet or suction pipe having 50/63 mm. diameter flexible green pipe followed 63 mm. PVC foot valve.

12. General requirements of all types of Tanker:--

1. Outlet:--

63 mm. NB class "A" GI nipple of 1 cm length (minimum) be provided at the rear of the tank along with required 75 mm cast Iron/steel ball valve/PVC Ball valve.

2. Painting & Finishing

The tanker should be spray painted, with priming coat of red oxide and two coat of synthetic enamel paint and colour as desired by consignee. Interior of the tank shouldbe painted with suitable primer followed by Non-poisonous rubber paint.

3. Guarantee

The manufacturer shall furnish guarantee for one year against manufacturing defects, leakage etc., along with tender incorporating that in case of complaint they shall undertake satisfactory repair within 10 days free of coat.

4. Inspection

The quality inspection of water tanker shall be carried out by the Third Party inspection agency nominated by M.P. Agro.

5. Tolerance :--

 \pm 5% Tolerance shall be provided to overall dimension of material $\,$ and \pm 5% in thickness of sheet & sections.

Note :-- If required minor deviation / amendment in specification may be done, after taking approval from M.P. Agro.

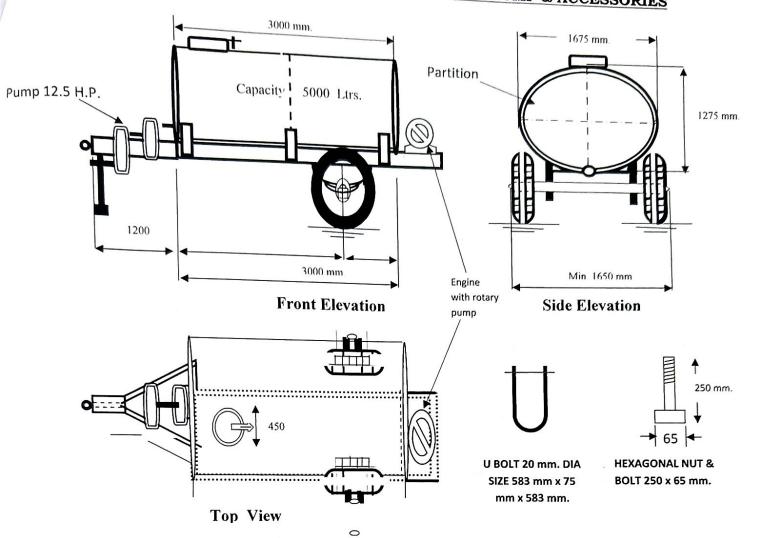
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Dr. Shasu (Mech) UIT. RGPV





SCHEMATIC DIAGRAM OF M.S. WATER TANKER MOUNTED ON TWO WHEEL AGRICULTURE TRACTOR TRAILER CAPACITY 5000 Lit. WITH 900 x 16 & 9.00X20 NEW TYRE AND TUBE WITH FIRE FIGHTING PUMP & ACCESSORIES

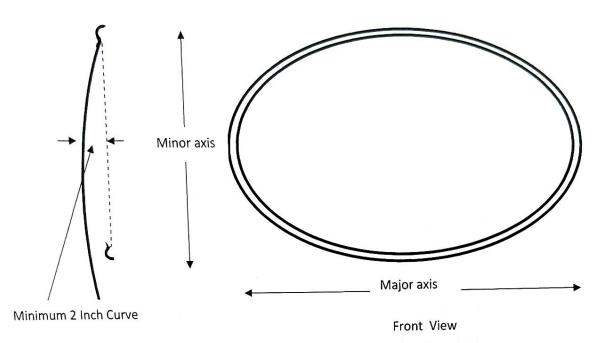


1. TYRES TUBE & FLAP	:	2 Nos.	900 x 16 or 900 x 20
2. WATER TANKER SHELLFOR 5000 Lit	. :		1675 mm. x 1275 mm x 3000 mm.
3. WATER TANKER SHEET THICKNESS:			3.0 mm. M.S. Sheet.
4. LAMINATED SPRING 19 LEAVES	:	2 Set.	70 x 10 mm., Eye to Eye 900 mm.
5. CHASSIS FRAME :		*	150 x 75 ISMC, L= 3400mm, W= 1000mm
6. AXLE	:	1 No.	75mm (Solid bar)/85mm (hollow)x ≥1650mm
7. DRAW BAR	:		150 x 75 ISMC , L= 1200 mm, W= 1000mm
8. U BOLT	:	8 Nos.	18 mm.7 x 3 x 7 Inch.
9. DRAW BAR HOOK	:	1 No	Diameter 40 mm., Length 250 mm.
10. STEEL HUB	:	2 Nos	20 mm. thick, 8 hole
11 DOUBLE PLATED RIM	:	2 Nos	5 mm. thick.
12 BEARING	:	2 Set.	32213 & 32216 No. (* (APPROVED VALUER - F-1727.)
13 STEEL HANGER & SHACKLE	:	4 Set	As per ISMC 150 x 75 mm. MSURANCE SURVEYOR SLA 11613
14. NET WEIGHT OF FIRE FIGHTER :			Up to 900 Kg. Approx
15 GROSS WEIGHT OF FIRE FIGHTER	;		5950 Kg. Approx
16. MAN HOLE	:		CollarW=450 mm,T= 4mm, Cover= 3mm
17. Fire Fighting Pump	:	1 No.	12.5 H.P. centrifugal pump with PTO driven

Or 6.5 H.P. Engine with rotary pump.

Design of End Plate of Tanker

End plates of tanker shall be made of 3.0 mm. M.S.sheet in a dish end shape. Sheet should be in a single piece and bend on the periphery to give strength or flat end with inside stiffener angle of 3.0 mm all around on both end.



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Specifications:--

For 5000 Iter.

Major axis ---- 1675 mm

Minor axis ---- 1275 mm.

Dish end curve ---- Min. 2 Inch.

Welding with shell ---- Lap joint.

Top View

Water distribution of Tanl

Capacity Calculation

Capacity of the Tanker in Liters

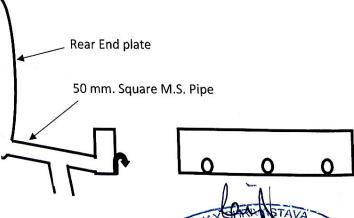
π X Major Axis x Minor Axis

4 x 1000

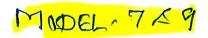
Major & Minor Axis in Centimetres



Dr. Aseem C. Tiwari







G.I. WATER TANKER MOUNTED ON TWO WHEEL AGRICULTURE TRACTOR TRAILER CAPACITY 5000 Lit. & 5500 Lit. WITH 9.00X16 NEW TYRE AND TUBE

1. Chassis:

The chassis shall be fabricated as per standard practice to mount the G.I. Coated Tank. All the joint shall be welded properly as per standard practice. The chassis frame have two longitudinal members having 150×75 mm. (ISMC) G.I. channel section or Auto channel and 5 cross member of the channel having 150×75 mm. (ISMC) G.I. Channel.

The overall approximate dimensions of various tanker trolley chassis shall be as under :--

S. No.	Approximate Capacity	Length	Width
1.	5000 Liter.	3450 mm.	1000 mm.
2.	5500 Liter.	3450 mm.	1000 mm.

2. Draw Bar (Chassis):

Draw Bar shall be centrally fitted in Box or Triangular v shape welded together made out of G.I. channel of size 150 x75 mm. (ISMC) channel section or Auto G.I. channel with eye hook made out of 40 mm. diameter M.S. round bar.

3. Axle Assembly:

Axle shall be made from solid square bar of 75 mm or 85 mm hollow square tube section with both the end machined and threaded and provided with iron hubs with 8 holes and minimum 20 mm. thick with hexagonal lock nut, fitted with twin taper roller bearing no. 32213 & 32216 provided with grease nipples for greasing the moving parts.

4. Leaf Spring:

Two set of leaf spring consisting of 19 leaves of size 70×10 mm. minimum 900 mm. long (distance between two pin) of alloy steel shall be provided. These leaf spring shall be fixed with frame by means of complete cast iron/Steel bracket assembly.

5. Tyre Tubes & Wheel Assembly:

Two number of New tyres 9.00×16 with tube & flap assembly of slandered make (MRF, Ceat, Herculas, JK, Apolo, Birla, Modi, Michigan, Goodyear, Bridgestone Yokohama etc) shall be provided with double plated rim 5 mm. thick with 8 No. of holes. Remouleded Tyres will not be allowed at any cost.

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Dr. Aseem C. Tiwari

SANJAY SHRIVASTAVA

SANJAY SHRIVASTAVA

CHARTERED ENGINEER (NOVA)

APPROVED VALUER - F-1737

MSURANCE SURVEYOR SLA. 11613

6. Shell of the Water Tanker :--

The water tanker should have capacity of approximate 5000 lit. and 5500 liters, manufactured in semi elliptical shape. The tank shall be made out of 2.5 mm. thick sheetwith minimum 50 gsm galvanized coating, and maximum number of plates are not more than 4 No., End plates of the tank shall be made of 2.50 mm thick sheet having minimum 50gsm galvanized coating with maximum in joint of two No. plate.

S. No.	Approximate Capacity	Major Axis	Minor Axis	Length
1.	5000 Liter.	1675 mm.	1275 mm.	3000 mm.
2.	5500 Liter.	1710 mm.	1310 mm.	3100 mm.

7. Baffle Plate :--

One baffle plate made of 2.00 mm. sheet with minimum 100 gsm galvanized coating shall be provided inside the tank over center reinforcement (plus shape) shall be properly welded with the two angle in plus position touching major & minor axis peak points. The height of the baffle plate shall be just 20 c.m. above over half of the minor axis of the tank.

8. Reinforcement or Grooving :--

The tank shall be reinforcement from inside by welding three number of elliptica rings made of 40 x 40 x 6 mm. G.I. angle on both ends and one in between at suitable distance or making minimum three grooves or grooved galvanized strips on the entire circumference of the shell by press machine.

9. Manhole:--

One manhole with hinged cover shall be provided at the top of the tank. The cover of the tank shall be fabricated by 3.00 mm thick sheet with minimum 50 gsm galvanized coating. The collar of the cover and manhole shale be made out of 3.00 mm. strip with minimum 50gsm galvanized coating. Locking arrangement for cover shall also be provided. The man hole cover shall be such fabricated so that no foreign material may not enter in the tank.

The shell of the tank shall be rested on the chassis by means of six number of suitable fabricated shoes (box type bracket) of 4 mm. thick plate or molded having 2.5mm. plates minimum 50 gsm galvanized coating brackets guide made out

10. Pump set stand :--

Pump Set Stand shall be made of 150 x 75 mm. (ISMC) G.I. coated channel or G.I. coated Auto channel suitable for pumps.

Prof. & Hess (Mesh) UIT, Sony

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MSURANCE SURVEYOR . S.LA. 11513

11. General requirements of all types of Tanker:--

1. Outlet:--

63 mm. NB class "A" GI nipple of 1 cm length (minimum) be provided at the rear of the tank along with required 75 mm cast Iron/steel ball valve/PVC Ball valve.

2. Painting & Finishing

The tanker should be spray painted, with priming coat of red oxide and two coat of synthetic enamel paint and colour as desired by consignee. Interior of the tank shouldbe painted with suitable primer followed by Non-poisonous rubber paint.

3. Guarantee

manufacturer shall furnish guarantee for one year against manufacturing defects, leakage etc., along with tender incorporating that in The case of complaint they shall undertake satisfactory repair within 10 days free of coat.

4. Inspection

The quality inspection of water tanker shall be carried out by the Third Party inspection agency nominated by M.P. Agro.

Tolerance:--

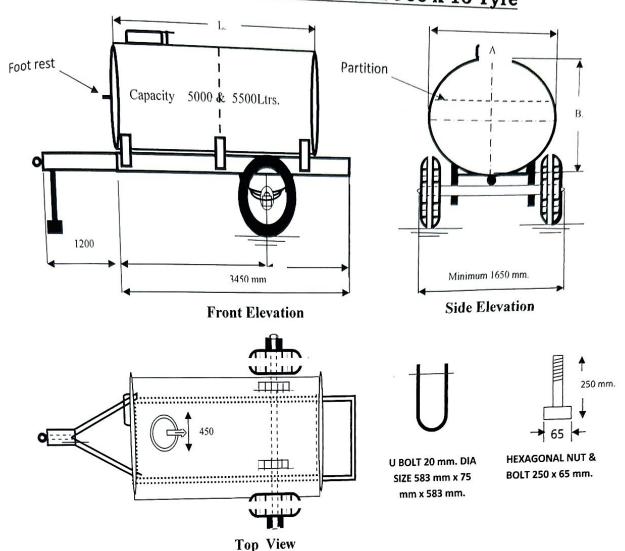
 \pm 5% Tolerance shall be provided to overall dimension of material and \pm 5% in thickness of sheet & sections.

Note :-- If required minor deviation / amendment in specification

may be done, after taking approval from M.P. Agro.

WSURANCE SURVEYOR

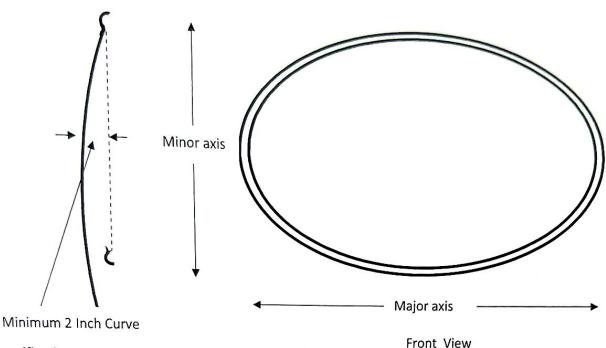
Schematic Drawing of G.I. Water Tanker capacity 5000 lit. & 5500 Lit. with 900 x 16 Tyre



	LOP	1 1011	
1. TYRES TUBE & FLAP	;	2 Nos.	900 x 16
2. WATER TANKER SHELLFOR 5000 Lit.	:		1675 mm. x 1275 mm x 3000 mm.
3. WATER TANKER SHELL FOR 5500 Lit.			1710 mm. x 1310 mm. x 3010 mm.
4. WATER TANKER SHEET THICKNESS:			2.50 mm. G.I. Sheet having 50 gsm coat.
5. LAMINATED SPRING 19 LEAVES	:	2 Set.	70 x 10 mm., Eye to Eye 900 mm.
6. CHASSIS FRAME :			150 x 75 ISMC, L= 3400mm, W= 1000mm
7. AXLE	:	1 Nos.	75mm (Solid bar)/85mm (hollow)x ≥1650mm
8. DRAW BAR	:		150 x 75 ISMC , L= 1200 mm, W= 1000mm
9. U BOLT	:	8 Nos.	18 mm.7 x 3 x 7 Inch.
10. DRAW BAR HOOK	:	1 No	Diameter 40 mm., Length 250 mm.
11. STEEL HUB	:	2 Nos	20 mm. thick, 8 hole
12 DOUBLE PLATED RIM	:	2 Nos	5 mm. thick.
13 BEARING	:	2 Set.	32213 & 32216 NO.
14 STEEL HANGER & SHACKLE	:	4 Set	As per ISMC 150 x 75 mm.
15. NET WEIGHT 5000 & 5500 Lit	:	^ -	Up to 850 Kg. Approx
16 GROSS WEIGHT 5000 & 5500 Lit.		Part	5850 Kg. & 6350 Kg. Approx
17. MAN HOLE	YSHA	SINE CONTRACTOR	CollarW=450 mm,T= 3mm, Cover= 3mm
CHART	ERED ENG	18 - F-1727) X	

Design of End Plate of Tanker

End plates of tanker shall be made of 3.0 mm. M.S.sheet in a dish end shape. Sheet should be in a single piece and bend on the periphery to give strength or flat end with inside stiffener angle of 3.0 mm all around on both end.



Specifications :--

For 5000 iter.

Major axis ---- 1675 mm Minor axis ---- 1275 mm. Dish end curve ----- Min. 2 Inch. Welding with shell ---- Lap joint.

For 5500 liter.

Major axis ---- 1710 mm.

Minor axis ---- 1310 mm.

Dish end curve ----- Min. 2 Inches.

Welding with shell ---- Lap joint.

Capacity Calculation

Capacity of the Tanker in Liters

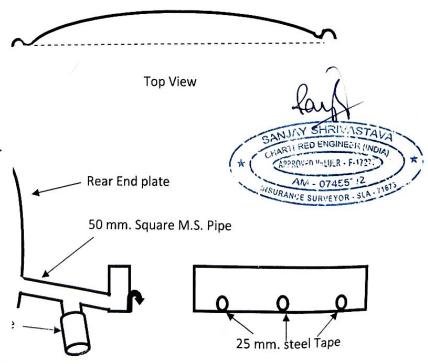
π X Major Axis x Minor Axis

4 x 1000

Major & Minor Axis in Centimetres











ARTERED ENGINEER

ANI - 07455

G.I. WATER TANKER MOUNTED ON TWO WHEEL AGRICULTURE TRACTOR TRAILER CAPACITY 5000 Lit. & 5500 Lit. WITH 9.00X20 NEW TYRE AND TUBE

1. Chassis:

The chassis shall be fabricated as per standard practice to mount the G.I.

All the joint shall be welded properly as per standard practice.

The chassis frame have two longitudinal members having 150 x 75 mm. (ISMC) G.I. Coated channel section or Auto channel and 5 cross member of the channel having 150 x 75 mm. (ISMC) G.I. Channel.

The overall approximate dimensions of various tanker trolley chassis shall be as under :--

S. No.	Approximate Capacity	Length	Width	
1.	5000 Liter.	3450 mm.	1000 mm.	
2.	5500 Liter.	3450 mm.	1000mm.	

2. Draw Bar (Chassis):

Draw Bar shall be centrally fitted in Box or Triangular v shape welded together made out of G.I. channel of size 150 x75 mm. (ISMC) G.I. channel section or G.I. Auto channel with eye hook made out of 40 mm. diameter M.S. round bar.

3. Axle Assembly:

Axle shall be made from solid square bar of 75 mm or 85 mm hollow square tube section with both the end machined and threaded and provided with iron hubs with 8 holes and minimum 20 mm. thick with hexagonal lock nut, fitted with twin taper roller bearing no. 32213 &32216 provided with grease nipples for greasing the moving parts.

4. Leaf Spring:

Two set of leaf spring consisting of 19 leaves of size 70 x 10 mm. minimum 900 mm. long (distance between two pin) of alloy steel shall be provided. These leaf spring shall be fixed with frame by means of complete cast iron/Steel bracket assembly.

5. Tyre Tubes & Wheel Assembly:

Two number of New tyres 9.00×20 with tube & flap assembly of slandered make (MRF, Ceat, Herculas, JK, Apolo, Birla, Modi, Michigan, Goodyear, Bridgestone Yokohama etc) shall be provided with double plated rim 5 mm. thick with 8 No. of holes. Remouleded Tyres will not be allowed at any cost.

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DASeem C. Tiwari Prof. & Heco (Moch) UIT, RGPV

Shell of the Water Tanker :--

The water tanker should have capacity of approximate 5000 lit. and 5500 liters, manufactured in semi elliptical shape. The tank shall be made out of 2.50 mm. thick steel sheet with minimum 50 gsm galvanized coating, and maximum number of plates are not more than 4 No., End plates of the tank shall be made of 2.50 mm thick steel sheet having minimum 50gsm galvanized coating with maximum in joint of two No. plate.

S. No.	Approximate Capacity	Major Axis	Minor Axis	Length
1.	5000 Liter.	1675 mm.	1275 mm.	3000 mm.
2.	5500 Liter.	1710 mm.	1310 mm.	3100 mm.

7. Baffle Plate :--

One baffle plate made of 2.00mm. with minimum 100 gsm galvanized coating shall be provided inside the tank over center reinforcement (plus shape) shall be properly welded with the two angle in plus position touching major & minor axis peak points. The height of the baffle plate shall be just 20 c.m. above over half of the minor axis of the tank.

Reinforcement or Grooving :--

The tank shall be reinforcement from inside by welding three number of elliptica rings made of $40 \times 40 \times 6$ mm. G.I. angle on both ends and one in between at suitable distance or making minimum three grooves or grooved G.I. strips on the entire circumference of the shell by press machine.

9. Manhole:--

One manhole with hinged cover shall be provided at the top of the tank. The cover of the tank shall be fabricated by 3.00 mm thick steel sheet having minimum 50 gsm galvanized coating. The collar of the cover and manhole shale be made out of 3.00 mm. steel strip with minimum 50 gsm galvanized coating. Locking arrangement for cover shall also be provided. The man hole cover shall be such fabricated so that no foreign material may not enter in the tank.

The shell of the tank shall be rested on the chassis by means of six number of suitable fabricated shoes (box type bracket) of 4 mm. thick plate or molded having 2.5 mm. plates. sheet brackets guide made out One ladder shall be made of $25 \times 25 \times 3$ mm I.S.A. or fabricated foot rest on the front end plates with handle.

10. Pump set stand :--

Pump Set Stand shall be made of 150×75 mm. (ISM C) G.I. channel or Auto channel suitable for pumps.

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Dr. Aseem C. Tiwarl Prof. & Hosse (Mech) UIT, ROPV SANJAY SHRIVASTAVA

SANJAY SHRIVASTAVA

CHARTERED ENGINEER (MODA)

APPROVED VALUER - F-1727

AM - 074E5 12

MSURANDE SURVEYOR SLA 17673

£ 58

11. General requirements of all types of Tanker:--

1. Outlet:--

63 mm. NB class "A" GI nipple of 1 cm length (minimum) be provided at the rear of the tank along with required 75 mm cast Iron/steel ball valve/PVC

2. Painting & Finishing:

The tanker should be spray painted, with priming coat of red oxide and two coat of synthetic enamel paint and colour as desired by consignee. Interior of the tank shouldbe painted with suitable primer followed by Non-poisonous rubber paint.

3. Guarantee

manufacturer shall furnish guarantee for one year against manufacturing defects, leakage etc., along with tender incorporating that in case of complaint they shall undertake satisfactory repair within 10 days free of coat.

4. Inspection:

The quality inspection of water tanker shall be carried out by the Third Party inspection agency nominated by M.P. Agro.

5. Tolerance:--

 \pm 5% Tolerance shall be provided to overall dimension of material and \pm 5% in thickness of sheet & sections.

Note :- If required minor deviation / amendment in specification

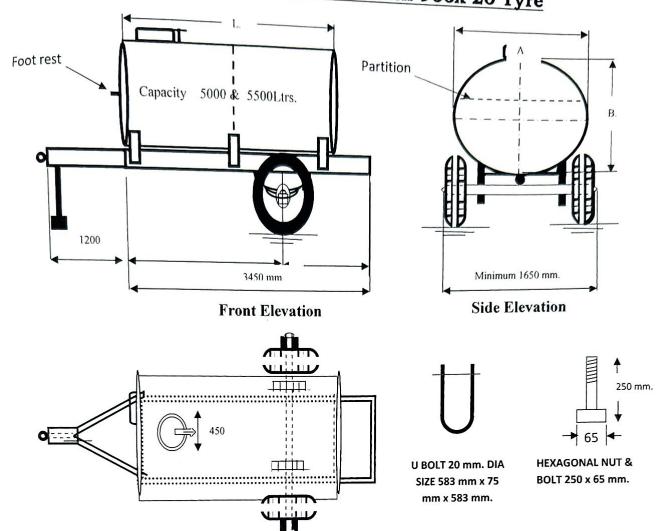
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AM - 07455 MSURANCE SURVEYOR . SL

may be done, after taking approval from M.P. Agro.



Schematic Drawing of G.I. Water Tanker capacity 5000 lit. & 5500 Lit. with 900x 20 Tyre



Top View

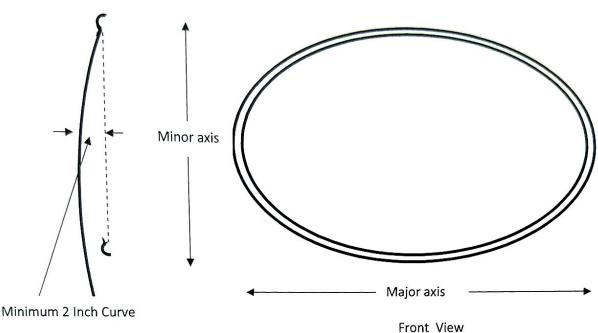
1. TYRES TUBE & FLAP	:	2 Nos.	900 x 20
2. WATER TANKER SHELLFOR 5000 Lit	:.:		1675 mm. x 1275 mm x 3000 mm.
3. WATER TANKER SHELL FOR 5500 Li	t. :		1710 mm. x 1310 mm. x 3010 mm.
4. WATER TANKER SHEET THICKNESS:	; 		2.50 mm. G.I. Sheet having 50 gsm coat.
5. LAMINATED SPRING 19 LEAVES	:	2 Set.	70 x 10 mm., Eye to Eye 900 mm.
6. CHASSIS FRAME :			150 x 75 ISMC, L= 3400mm, W= 1000mm
7. AXLE	:	1 Nos.	75mm (Solid bar)/85mm (hollow)x ≥1650mm
8. DRAW BAR	:		150 x 75 ISMC , L= 1200 mm, W= 1000mm
9. U BOLT	:	8 Nos.	18 mm.7 x 3 x 7 lnch.
10. DRAW BAR HOOK	:	1 No	Diameter 40 mm., Length 250 mm.
11. STEEL HUB	:	2 Nos	20 mm. thick, 8 hole
12 DOUBLE PLATED RIM	:	2 Nos	5 mm. thick.
13 BEARING	:	2 Set.	32213 & 32216 NO.
14 STEEL HANGER & SHACKLE	:	4 Set	As per ISMC 150 x 75 mm. INSURANCE SURVEYOR - SLA - 110
15. NET WEIGHT 5000 & 5500 Lit	:		Up to 850 Kg. Approx
16 GROSS WEIGHT 5000 & 5500 Lit.	:		5850 Kg. & 6350 Kg. Approx
17. MAN HOLE	:		CollarW=450 mm,T= 3mm, Cover= 3mm

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Dr. Aseem C. Tiwari Prof. & Hesu (Mech) UIT, RGPV

Design of End Plate of Tanker

End plates of tanker shall be made of 3.0 mm. M.S.sheet in a dish end shape. Sheet should be in a single piece and bend on the periphery to give strength or flat end with inside stiffener angle of 3.0 mm all around on both end.



Specifications :--

For 5000 iter.

Major axis ---- 1675 mm Minor axis ---- 1275 mm. Dish end curve ----- Min. 2 Inch. Welding with shell ---- Lap joint.

For 5500 liter.

Major axis ---- 1710 mm.

Minor axis ---- 1310 mm.

Dish end curve ----- Min. 2 Inches.

Welding with shell ---- Lap joint.

Capacity Calculation

Capacity of the Tanker in Liters

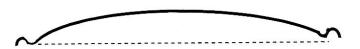
 π X Major Axis x Minor Axis

4 x 1000

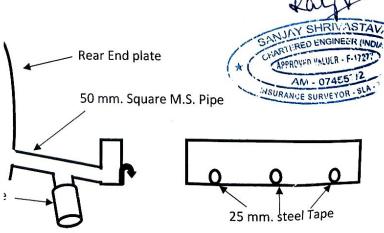
Major & Minor Axis in Centimetres



Dr. Aseem C. Tiwarl Prof. & Head (Moch) Ulf, RGPV



Top View



G.I. WATER TANKER MOUNTED ON TWO WHEEL AGRICULTURE TRACTOR TRAILER CAPACITY 5000 Lit. WITH 900 x 16 & 9.00X20 NEW TYRE AND TUBE WITH FIRE FIGHTING PUMP & ACCESSORIES

1. Chassis:

The chassis shall be fabricated as per standard practice to mount the M.S. Tank. All the joint shall be welded properly as per standard practice.

The chassis frame have two longitudinal members having 150 x 75 mm. (ISMC) G,I, channel section or G.I.Auto channel and 5 cross member of the channel having 150×75 mm. (ISMC) G,I, Channel.

The overall approximate dimensions of various tanker trolley chassis shall be as under :--

S. No.	Approximate Capacity	Length	Width	
	_	3450 mm.	1000 mm.	
1.	5000 Liter.	3450 IIIII.		

2. Draw Bar (Chassis):

Draw Bar shall be centrally fitted in Box or Triangular v shape welded together made out of MS channel of size 150 x75 mm. (ISMC) G.I. channel section or Auto channel with eye hook made out of 40 mm. diameter MS round bar.

3. Axle Assembly:

Axle shall be made from solid square bar of 75 mm or 85 mm hollow square tube section with both the end machined and threaded and provided with iron hubs with 8 holes and minimum 20 mm. thick with hexagonal lock nut, fitted with twin taper roller bearing no. 32213 & 32216 provided with grease nipples for greasing the moving parts.

4. Leaf Spring:

Two set of leaf spring consisting of 19 leaves of size 70×10 mm. minimum 900 mm. long (distance between two pin) of alloy steel shall be provided. These leaf spring shall be fixed with frame by means of complete cast iron/Steel bracket assembly.

5. Tyre Tubes & Wheel Assembly:

Two number of New tyres 900 x 16 or 9.00 x 20 with tube & flap assembly of slandered make (MRF, Ceat, Harculas, JK, Apolo, Birla, Modi, Michigan, Goodyear, Bridgestone Yokohama etc.) shall be provided with double plated rim 5 mm. thick with 8 No. of holes. Remouleded Tyres will not be allowed at any cost.

SURANCE SURVEYOR . SLA

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Dr. Aseem C. Tiwari

6. Shell of the Water Tanker :--

The water tanker should have capacity of approximate 5000 lit. and 5500 liters, manufactured in semi elliptical shape. The tank shall be made out of 2.50 mm. thick steel sheet having minimum 50 gsm galvanized coating over it, and maximum number of plates are not more than 4 No., End plates of the tank shall be made of 3.00 mm thick steel sheet having minimum 50 gsm galvanized coating with maximum in joint of two No. plate.

S. No.	Approximate Capacity	Major Axis	Minor Axis	Length
1.	5000 Liter.	1675 mm.	1275 mm.	3000 mm.

7. Baffle Plate :--

One baffle plate made of 2.00 mm. having minimum 100 gsm galvanized coating shall be provided inside the tank over center reinforcement (plus shape) shall be properly welded with the two angle in plus position touching major & minor axis peak points. The height of the baffle plate shall be just 20 c.m. above over half of the minor axis of the tank.

8. Reinforcement or Grooving :--

The tank shall be reinforcement from inside by welding three number of elliptica rings made of $40 \times 40 \times 6$ mm. M.S. angle on both ends and one in between at suitable distance or making minimum three grooves or grooved strips on the entire circumference of the shell by press machine.

9. Manhole:--

One manhole with hinged cover shall be provided at the top of the tank . The cover of the tank shall be fabricated by 3.00 mm thick M.S. sheet. The collar of the cover and manhole shale be made out of 4.00 mm. MS strip. Locking arrangement for cover shall also be provided. The man hole cover shall be such fabricated so that no foreign material may not enter in the tank.

The shell of the tank shall be rested on the chassis by means of six number of suitable fabricated shoes (box type bracket) of 4 mm. thick plate or molded having 2.5 m. steel sheet brackets guide made out One ladder shall be made of 25 x 25 x 3 I.S.A. or fabricated foot rest on the front end plates with handle.

10. Pump set stand :--

Pump Set Stand shall be made of 150×75 mm. (ISM C) G.I. channel or Auto channel suitable for pumps.

11. Fire Fighter :--

Medium duty centrifugal pump assembly is driven by pulley (Increased velocity ratio from 1 to 3) drive & connected with P.T.O. shaft of the tractor by means of propeller shaft & universal joint assembly.

SHRIVASTAV

CHARTERED ENGINEER (INDIA

APPROVED VALUER - F-1727

WSURANCE SURVEYOR - SLA

Size range: -- 65 mm x 50 mm.

R.P.M. :-- 1400 to 1500

Req. H.P.: -- 12.5 H.P.

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Out let of the pump is attached with 50 mm. cotton fabric delivery pipe followed with P.V.C./ Aluminum Nozzle assembly. Inlet or suction pipe having 50/63 mm. diameter flexible green pipe followed 63 mm. PVC foot valve.

OR

6.5 H.P. engine is fitted on the rear side of chassis with rotary pump with Out let of the pump is attached with 50 mm. cotton fabric delivery pipe followed with P.V.C./ Aluminum Nozzle assembly. Inlet or suction pipe having 50/63 mm. diameter flexible green pipe followed 63 mm. PVC foot valve.

12. General requirements of all types of Tanker:--

1. Outlet:--

63 mm. NB class "A" GI nipple of 1 cm length (minimum) be provided at the rear of the tank along with required 75 mm cast Iron/steel ball valve/PVC Ball valve.

2. Painting & Finishing:

The tanker should be spray painted, with priming coat of red oxide and two coat of synthetic enamel paint and colour as desired by consignee. Interior of the tank shouldbe painted with suitable primer followed by Non-poisonous rubber paint.

3. Guarantee:

The manufacturer shall furnish guarantee for one year against manufacturing defects, leakage etc., along with tender incorporating that in case of complaint they shall undertake satisfactory repair within 10 days free of coat.

4. Inspection

The quality inspection of water tanker shall be carried out by the Third Party inspection agency nominated by M.P. Agro.

5. Tolerance

 \pm 5% Tolerance shall be provided to overall dimension of material and \pm 5% in thickness of sheet & sections.

Note :-- If required minor deviation / amendment in specification may be done, after taking approval from M.P. Agro.

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Dr. Aseem C. Tiwari Dr. Aseem C. Tiwari Orof. & Hecu (Mech) UIT, RGPV SANJAY SHRIVASTALA

CHARTERED ENGINEER (INDIA)

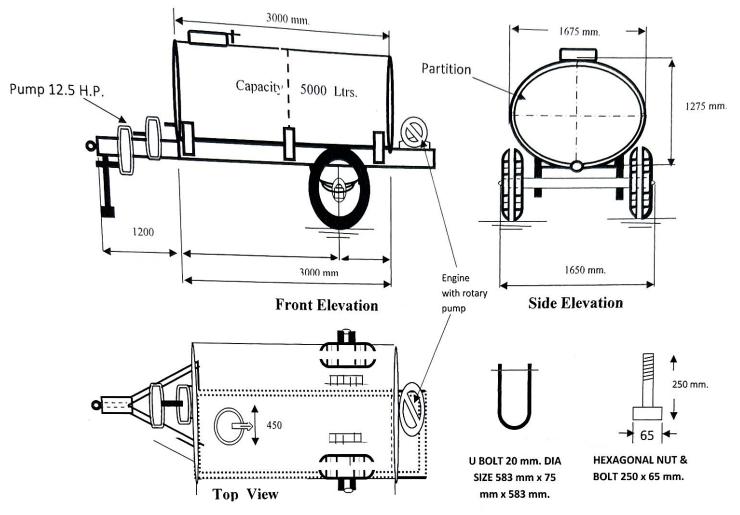
APPROVED MALULA - F-1727

AM - 07455 12

MSURANCE SURVEYOR - SLA - 11613



SCHEMATIC DIAGRAM OF G.I. WATER TANKER MOUNTED ON TWO WHEEL AGRICULTURE TRACTOR TRAILER CAPACITY 5000 Lit. WITH900 x 16 & 9.00X20 NEW TYRE AND TUBE WITH FIRE FIGHTING PUMP & ACCESSORIES



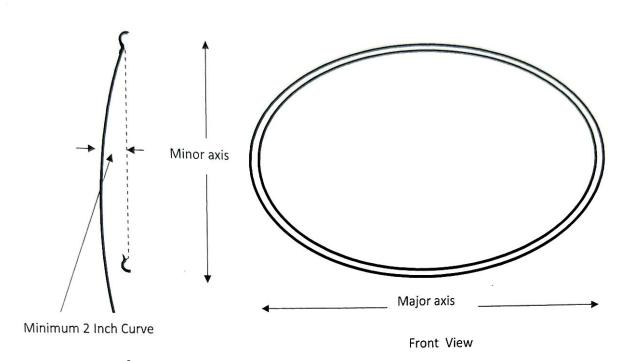
1. TYRES TUBE & FLAP	:	2 No.	900 x 16 or 900 x 20
2. WATER TANKER SHELLFOR 5000 Lit	.:		1675 mm. x 1275 mm x 3000 mm.
3. WATER TANKER SHEET THICKNESS	:		2.50 mm. steel Sheet 50 gsm zinc coating.
4. LAMINATED SPRING 19 LEAVES	:	2 Set.	70 x 10 mm., Eye to Eye 900 mm.
5. CHASSIS FRAME	:		150 x 75 ISMC, L= 3400mm, W= 1000mm
6. AXLE	:	1 No.	75mm (Solid bar)/85mm (hollow)x ≥1650mm
7. DRAW BAR	:		150 x 75 ISMC , L= 1200 mm, W= 1000mm
8. U BOLT	:	8 No.	18 mm.7 x 3 x 7 lnch.
9. DRAW BAR HOOK	:	1 NO	Diameter 40 mm., Length 250 mm.
10. STEEL HUB	:	2 NO	20 mm. thick, 8 hole
11 DOUBLE PLATED RIM	:	2 NO	5 mm. thick. GANJAY SHRIVASTAVA CHARTERED ENGINEER (NDDA)
12 BEARING	:	2 Set.	32213 & 32216 NO. (* (APPROVED MALUER - F-1727)
13 STEEL HANGER & SHACKLE	:	4 Set	As per ISMC 150 x 75 mm. AM - 074E5 12 11613
14. NET WEIGHT of FIRE FIGHTER	;		Up to 900 Kg. Approx
15 GROSS WEIGHT FIRE FIGHTER	:		5950 Kg. Approx
16. MAN HOLE G.I.	:		CollarW=450 mm,T= 3mm, Cover= 3mm
17. Fire Fighting Pump	!	1 No.	12.5 H.P. centrifugal pump with PTO driven
A \			Or 6.5 H.P. Engine with rotary pump.

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Dr. Aseem C. Tiwari

Design of End Plate of Tanker

End plates of tanker shall be made of 3.0 mm. M.S.sheet in a dish end shape. Sheet should be in a single piece and bend on the periphery to give strength or flat end with inside stiffener angle of 3.0 mm all around on both end.



Specifications :--

For 5000 Iter.

Major axis ---- 1675 mm
Minor axis ---- 1275 mm.
Dish end curve ----- Min. 2 Inch.
Welding with shell ---- Lap joint.

Capacity Calculation

Capacity of the Tanker in Liters

 π X Major Axis x Minor Axis

4 x 1000

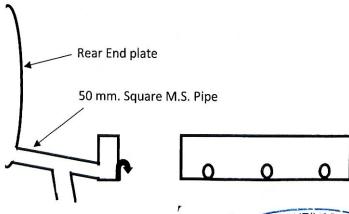
Major & Minor Axis in Centimetres



Dr. Ascem C. Tiwari Pici. & Heco (Moch) UIT, RGPV



Top View



SANJAY SHRIVASTAVA

GANJAY SHRIVASTAVA

GANJAY SHRIVASTAVA

APPROVED MELULA F-1727

MSURANCE SURVEYOR - SLA - 17673

MODEL-13

G.I. Water Tankers up to 4500 lit. with Water purifier, Solar Water Purifier & Solar Cooling arrangment with 900X16 Tyre.

Chassis Chassis of the browser shall made of G1 C channel 150 x 75			cooming arrangment with 300% to 1510.	
Draw Bar Draw bar of the browser shall made of G1 C channel 150 x 75 mm. Shell Shell shall be made of 2.5 mm. G.1. sheet with 50 gsm G1. coating half round partition shall made of 2.5 mm. G.1. sheet with 50 gsm G1. coating dually welded with G1. Angle Iron frame	s.no	Items	Description of Itam	
Shell Shell Shell shall be made of 2.5 mm. G.1. sheet with 50 gsm G.1. coating Half round partition shall made of 2.5 mm. G.1. sheet with 50 gsm G.1. coating dually welded with G.1. Angle Iron frame End Plate End Plate shall be made of 2.5 mm. G.1. sheet with 50 gsm G.1. coating dually welded with G.1. Angle Iron frame Hitch 40 mm. round bar length minimum 250 mm. Guide 6 No. of guide shall made of G.1. channel 150 x 75. Or 2.0 mm. die sheet. Main Hole Main hole shall be made of 2.5 mm. G.1. sheet with 50 gsm G.1. coating. 450 mm. dia. Main hoe cap (Dhakkan) shall be made of 3.15 mm. Die stand Die stand shall be made of 7.0 x 35 channel with locking arrangement. Two set of 32213 8 32216 No. bearing shall be fitted on hub assembly. Two set of 32213 8 32216 No. bearing shall be fitted on hub assembly. Two set of 32213 8 32216 No. bearing shall be fitted on hub assembly. In Leaf Spring 2 No. of leaf spring assembly having 70 x 10 mm size, 900 mm. shall be used. 2 No. Steel hub with eight hole and minimum 1650 mm. shall be used. 13 Leaf Spring 2 No. of leaf spring assembly having 70 x 10 mm size, 900 mm. eye to eye distance and total 19 no. leaves shall be placed in tanker. 14 U Clamp U BOLT 20 mm. DIA SIZE 583 mm x 75 mm x 583 mm. 15 Hanger 4 No. steel hanger dually welded or bolted with chassis of the tanker. 16 Shackle 2 No. of steel shackle used with hanger with steel pin. 17 Pin 4 No. steel pin shall made of toughened steel to hinged shackle & hanger with leaf spring eye Clamp Plate 2 No. square clamp plate shall be fitted with U clamp having minimum 10 mm thickness and 4 holes. 19 No. of steel shackle used with hanger with steel pin. 19 RIM Rim 21 Tyre 900 x 16 size rim having 8 hole and thickness minimum 5 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. 20 No. 16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allow			Chassis of the browser shall made of C1 C shapped 150 x 75	
Partition Half round partition shall made of 2.5 mm. G.1. sheet with 50 gsm G.1. coating dually welded with G.1. Angle Iron frame End Plate End Plate shall be made of 2.5 mm. G.1. sheet with 50 gsm G.1. coating Hitch Hitch 40 mm. round bar length minimum 250 mm. Guide 6 No. of guide shall made of 6.1. channel 150 x 75. Or 2.0 mm. die sheet. Main hole shall be made of 6.1. channel 150 x 75. Or 2.0 mm. die sheet. Main hole shall be made of 7.0 x 35 channel with 50 gsm G.1. coating. 450 mm. dia. Main hole shall be made of 7.0 x 35 channel with 10 king arrangement. Die stand 5 ms. Die stand shall be made of 70 x 35 channel with locking arrangement. Die stand Shall be made of 70 x 35 channel with locking arrangement. No steel stand shall be made of 70 x 35 channel with locking arrangement. Lax 85 mm square tube/solid axle of length minimum 1650 mm. shall be placed. No steel hub with eight hole and minimum 20 mm. thickness shall be used. No steel spring assembly having 70 x 10 mm size, 900 mm. eye to eye distance and total 19 no. leaves shall be placed in tanker. Lax 9 ms. Die Stand Shall made of boughened steel to hinged shackle & hanger with leaf spring eye Clamp Plate Rim Clamp Plate Clamp Plate No. steel hanger dually welded or bolted with chassis of the tanker. Lax 1 Tyre 900 x 16 size rim having 8 hole and thickness minimum 10 mm thickness and 4 holes. Pin Rim 2 Tyre 900 x 16 size rim having 8 hole and thickness minimum 5 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. Dox16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allowed at any cost. No of St apo not here ar side of the tanker with basin tray. No of St apo not here ar side of the tanker with basin tray. No of St apo not here ar side of the chassis connected through minimum 250 mm. G.I. pipe Water Cooling arrangemement shall be provided on the r			Draw bar of the browser shall made of G.L.C. channel 150 x 75. In triangular shape, 300	
Hair round partition shall made of 2.5 mm. G.I. sheet with 50 gsm G.I. coating dually welded with G.I. Angle Iron frame End Plate End Plate shall be made of 2.5 mm. G.1. sheet with 50 gsm G.I. coating Hitch 40 mm. round bar length minimum 250 mm. Main Hole Main hole shall be made of 2.5 mm. G.I. sheet with 50 gsm G.I. coating. 450 mm. dia. Main hole shall be made of 2.5 mm. G.I. sheet with 50 gsm G.I. coating. 450 mm. dia. Main hole shall be made of 2.5 mm. G.I. sheet with 50 gsm G.I. coating. 450 mm. dia. Main hole shall be made of 7.0 x 35 channel with 150 kmg arrangement. Die stand Die stand shall be made of 70 x 35 channel with locking arrangement. Two set of 32213 & 32216 No. bearing shall be fitted on hub assembly. Axle 85 mm square tube/solid axle of length minimum 1650 mm. shall be placed. 2 No. Steel hub with eight hole and minimum 20 mm. thickness shall be used. 2 No. of leaf spring assembly having 70 x 10 mm size, 900 mm. eye to eye distance and total 19 no. leaves shall be placed in tanker. 14 U Clamp U BOLT 20 mm. DIA SIZE 583 mm x 75 mm x 583 mm. 15 Hanger 4 No. steel hanger dually welded or bolted with chassis of the tanker. 2 No. of steel shackle used with hanger with steel pin. 4 No. steel pin shall made of toughened steel to hinged shackle & hanger with leaf spring eye Clamp Plate 18 Clamp Plate 2 No. square clamp plate shall be fitted with U clamp having minimum 10 mm thickness and 4 holes. 4 No. square clamp plate shall be minimum 25 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. 20 TYRE 900x16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allowed at any cost. 21 TUBE AND FLAP 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the rear side of the chassis connected through minimum 25 mm. Gl. pipe 22 OUTLET 2 No. of SS		Shell	Shell shall be made of 2.5 mm, G.1, sheet with 50 gsm G.I, coating	
6 Hitch 40 mm. round bar length minimum 250 mm. 7 Guide 6 No. of guide shall be made of 2.5 mm. G.1. sheet with 50 gsm G.1. coating 6 No. of guide shall made of G.1. channel 150 x 75. Or 2.0 mm. die sheet. 8 Main Hole Main hole shall be made of 2.5 mm. G.1. sheet with 50 gsm G.1. coating. 450 mm. dia. Main hole shall be made of 2.5 mm. G.1. sheet with 50 gsm G.1. coating. 450 mm. dia. Main hole shall be made of 70 x 35 channel with locking arrangement. 10 Bearing Two set of 32213 & 32216 No. bearing shall be fitted on hub assembly. 11 Axle 85 mm square tube/solid axle of length minimum 1650 mm. shall be placed. 12 Hub 2 No. Steel hub with eight hole and minimum 20 mm. thickness shall be used. 13 Leaf Spring 2 No. of leaf spring assembly having 70 x 10 mm size, 900 mm. eye to eye distance and total 19 no. leaves shall be placed in tanker. 14 U Clamp U BOLT 20 mm. DIA SIZE 583 mm x 75 mm x 583 mm. 15 Hanger 4 No. steel hanger dually welded or bolted with chassis of the tanker. 16 Shackle 2 No. of steel shackle used with hanger with steel pin. 17 Pin 4 No. steel pin shall made of toughened steel to hinged shackle & hanger with leaf spring eye Clamp Plate 18 Clamp Plate 2 No. square clamp plate shall be fitted with U clamp having minimum 10 mm thickness and 4 holes. 19 RIM Rim 21 Tyre 900 x 16 size rim having 8 hole and thickness minimum 5 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. 20 TYRE 300x16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birld, Yokohama, Remouleded Tyres will not be allowed at any cost. 21 Tube & Flap 900x16 size tube & flap shall be made of Butyl rubber as per standard practice 22 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 23 TAPE 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the rear side of the chassis connected through minimum 25 mm. G.	4	Hair round partition shall made of 2.5 mm. G.I. sheet with 50 gsm G.I. coating		
Hitch	5	End Plate	End Plate shall be made of 2.5 mm. G.1. sheet with 50 gsm G.I. coating	
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10 Bearing Two set of 32213 & 32216 No. bearing shall be fitted on his assembly. 11 Axle 85 mm square tube/solid axle of length minimum 1650 mm. shall be placed. 12 Hub 2 No. Steel hub with eight hole and minimum 20 mm. thickness shall be used. 13 Leaf Spring 2 No. of leaf spring assembly having 70 x 10 mm size, 900 mm. eye to eye distance and total 19 no. leaves shall be placed in tanker. 14 U Clamp U BOLT 20 mm. DIA SIZE 583 mm x 75 mm x 583 mm. 15 Hanger 4 No. steel hanger dually welded or bolted with chassis of the tanker. 16 Shackle 2 No. of steel shackle used with hanger with steel pin. 17 Pin 4 No. steel pin shall made of toughened steel to hinged shackle & hanger with leaf spring eye Clamp Plate 18 Clamp Plate 2 No. square clamp plate shall be fitted with U clamp having minimum 10 mm thickness and 4 holes. 19 RIM Rim 21 Tyre 900 x 16 size rim having 8 hole and thickness minimum 5 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. 20 TYRE 900x16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allowed at any cost. 21 TUBE AND FLAP 2 No. of SS tap on the rear side of the tanker with basin tray. 22 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 23 TAPE 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.l. pipe 24 WATER PURIFIRE ensure turbidity, hardness, bacteria etc. according to BIS standard. Water cooling arrangement shall be provided on the rear side of the tanker chassis, cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)	9	Die stand	Die stand shall be made of 70 x 35 channel with locking arrangement.	
11 Axle 85 mm square tube/solid axle of length minimum 1650 mth. Shall be used. 12 Hub 2 No. Steel hub with eight hole and minimum 20 mm size, 900 mm. eye to eye distance and total 19 no. leaves shall be placed in tanker. 14 U Clamp U BOLT 20 mm. DIA SIZE 583 mm x 75 mm x 583 mm. 15 Hanger 4 No. steel hanger dually welded or bolted with chassis of the tanker. 16 Shackle 2 No. of steel shackle used with hanger with steel pin. 17 Pin 4 No. steel pin shall made of toughened steel to hinged shackle & hanger with leaf spring eye Clamp Plate 18 Clamp Plate 2 No. square clamp plate shall be fitted with U clamp having minimum 10 mm thickness and 4 holes. 19 RIM Rim 21 Tyre 900 x 16 size rim having 8 hole and thickness minimum 5 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. 20 TYRE 900x16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allowed at any cost. 21 TUBE AND FLAP Stapp 900x16 size tube & flap shall be made of Butyl rubber as per standard practice 22 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 23 TAPE 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.l. pipe 24 WATER PURIFIRE ensure, turbidity, hardness, bacteria etc. according to BIS standard. 25 WATER COOLING SYSTEM Water Cooling arrangement shall be provided on the rear side of the tanker chassis; cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)			Two set of 32213 & 32216 No. hearing shall be titted on rub assembly.	
12 Hub 2 No. Steel hub with eight hole and minimum 20 mm. eight spring assembly having 70 x 10 mm size, 900 mm. eye to eye distance and total 19 no. leaves shall be placed in tanker. 14 U Clamp U BOLT 20 mm. DIA SIZE 583 mm x 75 mm x 583 mm. 15 Hanger 4 No. steel hanger dually welded or bolted with chassis of the tanker. 16 Shackle 2 No. of steel shackle used with hanger with steel pin. 17 Pin 4 No. steel pin shall made of toughened steel to hinged shackle & hanger with leaf spring eye Clamp Plate 18 Clamp Plate 2 No. square clamp plate shall be fitted with U clamp having minimum 10 mm thickness and 4 holes. 19 RIM Rim 21 Tyre 900 x 16 size rim having 8 hole and thickness minimum 5 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. 20 TYRE 300x16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allowed at any cost. 21 TUBE AND FLAP Stap 900x16 size tube & flap shall be made of Butyl rubber as per standard practice 22 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 23 TAPE 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.l. pipe 24 WATER PURIFIRE ensure, turbidity, hardness, bacteria etc. according to BIS standard. 25 WATER COOLING SYSTEIM Water Cooling arrangement shall be provided on the rear side of the tanker chassis; cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)			of men aguera tube/solid oxio of longth minimum 1650 MM. Stidii be places.	
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distance and total 19 no. leaves shall be placed in tanker. 15 Hanger 4 No. steel hanger dually welded or bolted with chassis of the tanker. 16 Shackle 2 No. of steel shackle used with hanger with steel pin. 17 Pin 4 No. steel pin shall made of toughened steel to hinged shackle & hanger with leaf spring eye Clamp Plate 18 Clamp Plate 2 No. square clamp plate shall be fitted with U clamp having minimum 10 mm thickness and 4 holes. 19 RIM Rim 21 Tyre 900 x 16 size rim having 8 hole and thickness minimum 5 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. 20 TYRE 900x16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allowed at any cost. 21 TUBE AND FLAP Standard practice 22 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 23 TAPE 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.I. pipe 24 WATER PURIFIRE Water Cooling arrangement shall be placed on the rear side of the tanker chassis to ensure, turbidity, hardness, bacteria etc. according to BIS standard. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)			2 No. of leaf spring assembly having 70 x 10 mm size, 900 mm. eye to eye	
14 U Clamp U BOLT 20 mm. DIA SIZE 583 mm x /5 mm x 563 mm x 15 mm x 563 mm x 164 mx 15 mm x 164 mx 15 mm x 164 mx 16	1.0		distance and total 19 no, leaves shall be placed in tanker.	
15 Hanger 4 No. steel hanger dually welded or bolted with chassis of the tarker. 16 Shackle 2 No. of steel shackle used with hanger with steel pin. 17 Pin 4 No. steel pin shall made of toughened steel to hinged shackle & hanger with leaf spring eye Clamp Plate 18 Clamp Plate 2 No. square clamp plate shall be fitted with U clamp having minimum 10 mm thickness and 4 holes. 19 RIM Rim 21 Tyre 900 x 16 size rim having 8 hole and thickness minimum 5 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. 20 TYRE 900x16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allowed at any cost. 21 TUBE AND FLAP Tube & Flap 900x16 size tube & flap shall be made of Butyl rubber as per standard practice 22 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.l. pipe 24 WATER PURIFIRE U.V. protected water purifier shall be placed on the rear side of the chassis to ensure, turbidity, hardness, bacteria etc. according to BIS standard. Water cooling arrangement shall be provided on the rear side of the tanker chassis, cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)	14	U Clamp	LI BOLT 20 mm DIA SIZE 583 mm x 75 mm X 583 IIIII.	
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17 Pin 4 No. steel pin shall made of toughened steel to ninged shake a many shake leaf spring eye Clamp Plate 18 Clamp Plate 2 No. square clamp plate shall be fitted with U clamp having minimum 10 mm thickness and 4 holes. 19 RIM Rim 21 Tyre 900 x 16 size rim having 8 hole and thickness minimum 5 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. 20 TYRE 900x16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allowed at any cost. 21 TUBE AND FLAP Standard practice 22 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 23 TAPE 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.l. pipe 24 WATER PURIFIRE U.V. protected water purifier shall be placed on the rear side of the chassis to ensure, turbidity, hardness, bacteria etc. according to BIS standard. 25 WATER COOLING SYSTEM Water cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)	-			
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RIM Rim 21 Tyre 900 x 16 size rim having 8 hole and thickness minimum 3 mm. or Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in assembly. 20 TYRE 900x16 size tyre of 16 ply with shall be used from one of the following brand: Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allowed at any cost. 21 TUBE AND FLAP Tube & Flap 900x16 size tube & flap shall be made of Butyl rubber as per standard practice 22 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 23 TAPE 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.l. pipe 24 WATER PURIFIRE PURIFIRE U.V. protected water purifier shall be placed on the rear side of the chassis to ensure, turbidity, hardness, bacteria etc. according to BIS standard. 25 WATER COOLING SYSTEM Water Cooling arrangement shall be provided on the rear side of the tanker chassis, cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)	1:	8 Clamp Plate	2 No. square clamp plate shall be fitted with U clamp having minimum 15 min	
20 TYRE 300x16 size tyre of 16 ply with shall be used from one of the following braid. Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline, Birla, Yokohama, Remouleded Tyres will not be allowed at any cost. 21 TUBE AND FLAP Tube & Flap 900x16 size tube & flap shall be made of Butyl rubber as per standard practice 22 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 23 TAPE 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.l. pipe 24 WATER PURIFIRE U.V. protected water purifier shall be placed on the rear side of the chassis to ensure, turbidity, hardness, bacteria etc. according to BIS standard. 25 WATER COOLING SYSTEM Water Cooling arrangement shall be provided on the rear side of the tanker chassis, cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)	1	9 RIM	Rim 21 Tyre 900 x 16 size rim having 8 hole and thickness minimum 3 min. of Rim having Ring kada with 8 hole and 8 mm. plate thickness shall be fitted in	
Tube & Flap 900x16 size tube & flap shall be made of Butyl Tubber as per standard practice 2 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.l. pipe U.V. protected water purifier shall be placed on the rear side of the chassis to ensure, turbidity, hardness, bacteria etc. according to BIS standard. WATER COOLING SYSTEM Water cooling arrangement shall be provided on the rear side of the tanker chassis, cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)	2	20 TYRE	200x16 size tyre of 16 ply with shall be used from one of the following brand. Apolo, Ceat, J.K., Goodyear, Modi, Harculas, Bridgestone, MRF, Michline,	
22 OUTLET 2 No. of SS tap on the rear side of the tanker with basin tray. 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Safety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.l. pipe 24 WATER PURIFIRE U.V. protected water purifier shall be placed on the rear side of the chassis to ensure, turbidity, hardness, bacteria etc. according to BIS standard. 25 WATER COOLING SYSTEM Water Cooling arrangement shall be provided on the rear side of the tanker chassis, cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)			Tube & Flap 900x16 size tube & flap shall be made of Butyl rubber as per	
23 TAPE 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Salety 3 No. 25 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.l. pipe 24 WATER PURIFIRE 25 WATER COOLING SYSTEM Water cooling arrangement shall be provided on the rear side of the tanker chassis, cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)	T	22 OUTLET	2 No. of SS tap on the rear side of the tanker with basin tray.	
PURIFIRE ensure, turbidity, hardness, bacteria etc. according to BIS standard. WATER COOLING COOLING SYSTEM Water cooling arrangement shall be provided on the rear side of the tanker chassis, cooling system based on evaporative system powered battery & water pump system. Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)		23 TAPE 3 Outlet 24 Tape 25 Water Purifier 26 Water Cooling system 27 Salety 3 No. 2 mm. steel/p.v.c. tape for water distribution on the side of the chassis connected through minimum 25 mm. G.L. nine		
COOLING SYSTEM chassis, cooling system based on evaporative system powered battery & water pump system. 26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)		24 WATER U.V. protected water purifier shall be placed on the rear side of the chassis to		
26 SAFETY Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)		COOLIN	chassis, cooling system based on evaporative system powered battery & water	
		26 SAFET	Water Tanker shall be as per 158239-2005 (Agriculture tractor Trailer)	

Note:-15% tolerance shall be given to no overall dimension and Thikness and size.

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Office of C. Tiwari

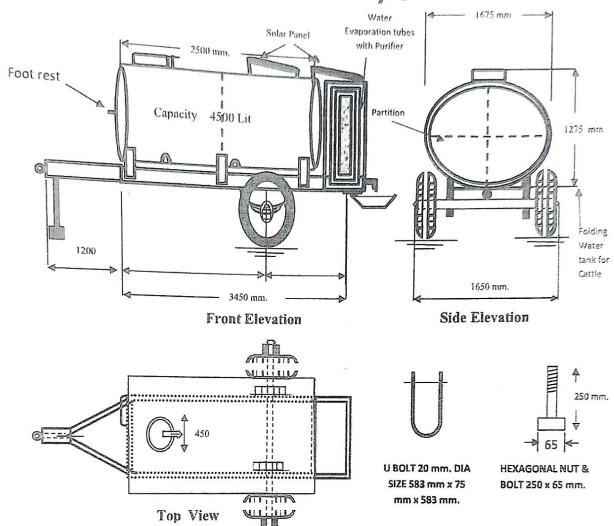
SANTERED ENGINEER (INDIA)

CHARTTERED ENGINEER (INDIA)

ANI - 074E5 12

WSURANCE SURVEYOR STATES

G.l. Water Tankers up to 4500 lit. with Solar Water purifier, Solar Cooling arrangement & Sprinkler System with 900 x 16 Tyre



Detail of Items	Specifications	Qty	Remark
Chassis Frame	150 x 75 mm.	1 No.	As per ISMC or Auto Channel
Tanker shell	Major axis 1675, Minor axis 1275, Length 2500 mm.	1 No.	IS 277:2003
Wheel Assembly			
Tyre	900 x 16 , 16 Ply	2 No.	Apollo, J.K, MRF, Ceat, Birla Harculas, Bridgestone, Goodyear, Michlene.
Tube & Flap	900 x 16, butyl rubber.	2 No.	Standard Make
Axle	85 mm. hollow C section.	1 No.	As per IS 2062
Steel Hub	20 mm. thick	2 Set	8 Hole for boult
Bearing	32213 & 32216 NO.	2 Set	Hardened Steel
Rim	Double plated 5 mm. thick	2 No.	8 Hole
U bolt	18 mm dia. 7 x 3 x 7 Inch	4 No.	IS2062
Laminated Spring	900 mm. long, 70 x 10 mm.	2 Set	Hardened Steel
Toeing Hitch	40 mm. dia 10 inch long	1 No.	IS2062
U Bolt	18 mm. dia. 7 x 3 x 7 Inch	4 No.	IS2062 S EN
Water Purifier	6.5 H.P. petrol Engine	1No.	Self priming water pump 2800 rpm
Water Cooler	Copper tube with Viscus & fan	1 Set	Water evaporative technology based
Water Sprinkler	G.I. perforated pipe with ball valve	1 No	For spray work.
The same of the sa	Chassis Frame Tanker shell Wheel Assembly Tyre Tube & Flap Axle Steel Hub Bearing Rim U bolt Laminated Spring Toeing Hitch U Bolt Water Purifier Water Cooler	Chassis Frame Tanker shell Major axis 1675, Minor axis 1275, Length 2500 mm. Wheel Assembly Tyre 900 x 16, 16 Ply Tube & Flap 900 x 16, butyl rubber. Axle 85 mm. hollow C section. Steel Hub 20 mm. thick Bearing 32213 & 32216 NO. Rim Double plated 5 mm. thick U bolt 18 mm dia. 7 x 3 x 7 Inch Laminated Spring 900 mm. long, 70 x 10 mm. Toeing Hitch 40 mm. dia. 10 inch long U Bolt 18 mm. dia. 7 x 3 x 7 Inch Water Purifier 6.5 H.P. petrol Engine Water Cooler Copper tube with Viscus & fan	Chassis Frame 150 x 75 mm. 1 No. Tanker shell Major axis 1675, Minor axis 1275, Length 2500 mm. 1 No. Wheel Assembly Tyre 900 x 16, 16 Ply 2 No. Tube & Flap 900 x 16, butyl rubber. 2 No. Axle 85 mm. hollow C section. 1 No. Steel Hub 20 mm. thick 2 Set Bearing 32213 & 32216 NO. 2 Set Rim Double plated 5 mm. thick 2 No. U bolt 18 mm dia. 7 x 3 x 7 Inch 4 No. Laminated Spring 900 mm. long, 70 x 10 mm. 2 Set Toeing Hitch 40 mm. dia 10 inch long 1 No. U Bolt 18 mm. dia. 7 x 3 x 7 Inch 4 No. Water Purifier 6.5 H.P. petrol Engine 1No. Water Cooler Copper tube with Viscus & fan 1 Set

SKNJAY SHRIVASTAVA

CHARTERED ENGINEER (INDIA)

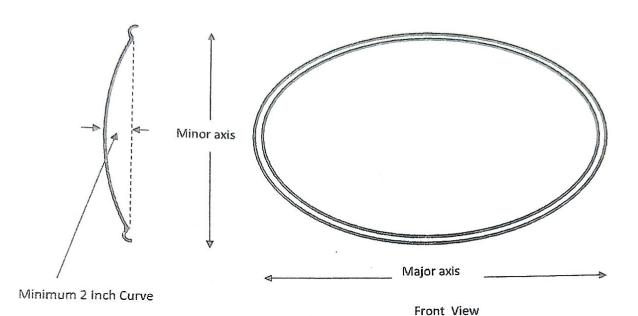
APPROVED MALUER - F-1727

MSURANCE SURVEYOR - SLA - 71673

PhD (Walkerbotkanagement)
Sr. A.D.O. (Agenceloure Departs. 11)

Sr. A.D.O. (Agencies departs)
River Valley Project, M.P. Gowl
Dist. Hosbangabed (M.P.

Design of End Plate of Tanker: -- End plates of tanker shall be made of 3.0 mm. M.S. sheet in a dish end shape. Sheet should be in a single piece and bend on the periphery to give strength.



Specifications :--

For 4500 Iter.

Major axis --- 1675 mm

Minor axis --- 1275 mm.

Length --- 2500 mm.

Dish end curve ---- Min. 2 Inch.

Welding with shell ---- Lap joint.

Top View

