



WESTERN COALFIELDS LIMITED
(A SUBSIDIARY OF Coal India Limited)
CIN U10100MH1975GOI018626

MATERIALS MANAGEMENT WING, COAL ESTATE, CIVIL LINES, NAGPUR - 440 001.
PHONE : PBX : 0712-2611381, 2510691 Extn : 5606, 5861, Fax : 0712-2510284

Supply Order NO. 11000114318121

DT: 13.10.2018

SUPPLY ORDER

To

M/s. **ATS ELGI Limited**
52/A 11, Private Industrial Estate,
Kurichy, Coimbatore - 641021

Vendor Code: 526075

Vendor Category : Manufacturer

email: dhamodaraswamy@ats-elgi.com

Dear Sir,

Sub : **Formal Order for Supply of Mobile Service Units.**

- Ref : 1. WCL's Tender enquiry no WCL-hq-pur-yvr-ra-e012-2018-19 opened on 02.07.2018 (Tender ID: 2018_WCL_103771_1); Price bid / Reverse Auction held on 18.07.18
2. Your offer / Bid number 309571
3. WCL's letter no WCL/NGP/MMW/Sec-1A/YVR/MSU/18-19/E-69056/834 dt 28.07.18
4. Your letter no Nil dt 02.08.2018

This has reference to above. We are pleased to place FORMAL ORDER on you for the supply of 14 nos of Mobile Service Units on the rates, following salient terms and conditions given and general terms and conditions enclosed: -

NIT sl no	Description	Quantity (nos)	Unit Basic Price Rs.	Extended value Rs.
1	A Fabricated Mobile service Van complete in all respect as per technical parameters enclosed at Annexure "A". The body of the Van shall be mounted on a new truck cab -chassis of TATA Model LPT1613BS IV with 4200mm WB. (Additional requirement : PCD); (Scope of supply & Detailed Technical specifications as per Annexure "A" enclosed). Material Code : 16735000002	11	33,50,000.00	3,68,50,000.00
2	A Fabricated Mobile service Van complete in all respect as per technical parameters. The body of the Van shall be mounted on a new truck cab -chassis of TATA Model LPT1613 BS IV with 4200mm WB. Replacement requirement : NCD; (Scope of supply & Detailed Technical specifications as per Annexure "A" enclosed). Material Code : 16735000002	3	33,50,000.00	1,00,50,000.00
	FOR Destination price of 14 machines (Basic + freight +Insurance)			4,69,00,000.00
	GST @ 18% on FOR Destination price of 14 machines (Basic + freight +Insurance)			84,42,000.00
	Total value of order before availing ITC			5,53,42,000.00
	Total value of order after availing ITC			4,69,00,000.00

Total Value: Rs.5,53,42,000.00 (Rupees Five crores fifty three lakhs fourty two thousand only).

Terms and conditions :

- Prices:** The prices are FIRM and on F.O.R. destination basis inclusive of Packing, forwarding, freight and insurance charges upto destination. Safe arrival of the consignment at destination stores shall be your responsibility.
- GST:** GST shall be paid extra at actual against documentary evidence as applicable at the time of Dispatch within the stipulated delivery period. The current rate of GST is 18%. Input Tax Credit benefit shall be availed by the consignee, for which you should submit GST Complaint Invoice. You shall be upload the Tax Invoice / Debit note / Credit Note in GST portal, make payment of GST and file necessary returns under GST in time, to facilitate WCL to avail ITC under GST. In case of any failure on your account the penalty including interest (if any) borne by WCL shall be recovered from you.

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Supply Order no 11000114318121 dt 13.10.2018, M/s ATS ELGI Ltd

3. **Security Deposit:** M/s ATS ELGI Ltd has to furnish Security Deposit amount in the form of DD or BG of any scheduled bank for 10% (ten percent) value of the total order value i.e. for Rs. **55,34,200.00** (rupees fifty five lakhs thirty four thousand and two hundred only), within 15 days time from the date of supply order.
4. **Guarantee / Warranty:** You shall guarantee for the satisfactory performance of the equipment for a minimum period of 12 months from the date of commissioning or 18 months from date of receipt and acceptance of items, whichever is earlier. In the event of any defects in materials, design and workmanship during the aforesaid period is found due to faulty design or poor workmanship, the defective items will be replaced by you, at site free of cost within 21 days of settlement of warranty claims. You will be required to stock items to take care of warranty failures.
5. **Performance Bank Guarantee (PBG):** M/s ATS ELGI Ltd has to submit performance bank guarantee for 10% of the order value (landed cost) i.e. Rs. **55,34,200.00** (rupees fifty five lakhs thirty four thousand and two hundred only) valid for a period of 21 months of from the date of receipt and acceptance of materials to cover the guarantee period and the same shall be released on receipt of satisfactory performance throughout the guarantee period. (BG may be submitted for individual equipments). The BG shall be released after successful completion of the guarantee/warranty period after confirmation from GM(EXCV)HOD, WCL(HQ)s. Any short fall of performance availability, deduction shall be made as per technical specification as per Guarantee / Special Guarantee clause indicated in the order / NIT. The PBG must be submitted within 15 days from the date of receipt & acceptance of the equipment. No Payment shall be made without submission of Performance Bank Guarantee.

The Bank Guarantee issued by the issuing bank on behalf of the supplier in the favour of Western Coalfields Ltd shall be in paper form as well as issued under "Structured financial messaging system". The details of beneficiary for issue of BG under SFMS platform is furnished below:

Name of beneficiary and details	
Name	Western Coalfields Limited
AREA	Head quarter.
Bank account no / Customer ID	Current account no : 005905018053 Customer id: 556096497 ICICI Bank Ltd, Vishnu Vaibhav, 222, Palm Road, Civil Lines, Nagpur
IFSC Code	ICIC 0000059
Bank Manager name and phone no	Hrushikesh Sakalkale; Ph no =91-9923202096

BG advising message - 760COV / 767 COV via SFMS

Field number	Particulars
7035	ICICI0000059
7037	WCL556096497

6. **Inspection:** Pre dispatch inspection shall be carried out by CM(Excv), CIL, Bangalore / representative of GM(Excv) I/C, WCL Hqrs or any other agency appointed by WCL and Final inspection of the consignment shall be carried out at the destination stores, which will be arranged by the consignee on receipt of stores.
7. **Payment Terms:**
 - (I) 80% of Invoice value of the equipment and accessories and 100% taxes and duties and other charges shall be made within 21 days after receipt and acceptance of material at site by the consignee against submission of confirmed PBG or from the date of submission of bills, whichever is later.
 - (II) Payment for Balance 20% of the Invoice value shall be made within 21 days after successful completion of erection, testing, commissioning and final acceptance of the equipment (along with the accessories) upon presentation of certificates from the Area GM/Staff Officer (Excv), respective area to the effect that the equipment has been erected and commissioned to their entire satisfaction as well as free training to the end users and performance testing at the allocated location.
8. **Delivery:** Commencing immediately and completion within four months, which shall be reckoned from 7th day of the order date.
9. **Consignee & Allocation:-** WCL's GSTIN no : 27AAACW1578L1ZW

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WCL

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Allocation	Qty (nos)	Area	POSTAL ADDRESS OF THE CONSIGNEE
Gauri Deep OCM (A) - 1 Sasti Expn OCM (R) - 1	2	Ballarpur	The Depot Officer, Regional Stores, Western Coalfields Limited, Ballarpur Area, PO : Sasti, Distt:-Chandrapur (M.S) Pin: - 442 701
Penganga (A) - 1 Niljai Exp deep (A) - 1 Mungoli Inc Nirguda (A) - 1 Ukni Deep Scheme (R) - 1	4	Wani	The Depot Officer, Regional Stores, Western Coalfields Limited, Wani Area, PO : Ghugus colliery, Distt:-Chandrapur (M.S) Pin: - 442 505
Umrer Exp OCM (R) - 1	1	Umrer	The Depot Officer, Regional Stores, Western Coalfields Limited, Umrer Area, PO : Umrer, Distt:-Nagpur (M.S) 441204
Durgapur Ent deep (A) - 2 HLP Expn (A) - 1 Bhatadi Expn OCM (A) - 1	4	Chandrapur	The Depot Officer, Regional Stores, Western Coalfields Limited, Chandrapur Area, PO : Durgapur, Distt:-Chandrapur (M.S) 442403
New Majri I & II Expn (A) - 1	1	Majri	The Depot Officer, Regional Stores, Western Coalfields Limited, Majri Area, PO : Shivaji Nagar, Dist: Chandrapur (MS) : 442 603
Kamptee Deep OCM (A) - 1 Gondegaon Ghatrohan amalgamation (A) - 1	2	Nagpur	The Depot Officer, Regional Stores, Western Coalfields Limited, Nagpur Area, PO : Silewara Colliery, Distt:-Nagpur (M.S) 441109

Note: "A" - Additional requirement (PCD) ; "R" - Replacement requirement (NCD)

10. Paying Authority: General Manager (Finance), Western Coalfields Limited, Coal Estate, Civil Lines, Nagpur - 440 001.

11. Bank details for EFT payment:- (as provided by you in your offer)

Name of the Bank	HDFC Bank Limited
Branch & Location	Nanjmmas 1/180-2, Mettupalayam Road, Thudiyalur, Coimbatore - 641034
Account Number	07290310000011
Nature of Account	Current Account
IFS CODE of the Branch	HDFC0000729

12. Mode of dispatch: All the stores surely packed are to be dispatched by road transport to the consignee on Freight paid basis.

13. Guarantee / Warranty: -

- You shall guarantee for the satisfactory performance of the equipment for a minimum period of 12 months from the date of commissioning or 18 months from date of receipt and acceptance of items, whichever is earlier. In the event of any defects in materials, design and workmanship during the aforesaid period is found due to faulty design or poor workmanship, the defective items will be replaced by the supplier at site free of cost within 21 days of settlement of warranty claims. The bidder will be required to stock items to take care of warranty failures.
- The guaranty/composite warranty certificate shall be submitted along with the bill. The warranty shall cover for the total equipment so that the necessity of having to approach different manufacturers of various components/assemblies does not arise and all services under warranty clause shall be the responsibility of the ultimate supplier of the composite unit. You will replace the defective items, if any, during the warranty period free of cost. The responsibility to collect the defective/rejected material will lie with the supplier and the cost for such collection will have to be borne by the supplier.
- You shall warrant that the items supplied under the contract/ supply order:-
 - Is in accordance with the contract specifications.
 - Shall have no defects arising out of design, materials or workmanship
 - Is new, unused and of current design not likely to be discontinued or become obsolete till the life of the offered equipment.

14. Performance Guarantee Clause: The equipment shall be guaranteed for satisfactory performance for initial one year period. Performance Bank Guarantee shall be released to the supplier after satisfactory performance during the guarantee period.

15. Liquidated Damages & Risk Purchase clause: - In the event of failure to deliver or dispatch the stores within the stipulated date / period in accordance with the samples and/or specification mentioned in the

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supply order, and in event of breach of any terms and conditions mentioned in the supply order, Coal India Limited shall have the right,

a) To recover from the successful bidder as agreed liquidated damages, a sum not less than 0.5% (half percent) of the price of any stores which the successful bidder has not been able to supply as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to 10% can be increased to 15% at the discretion of Head of MM Division.

b) To purchase elsewhere, after due notice to the successful bidder on the account and at the risk of the defaulting supplier the stores not supplied or others of a similar description without canceling the supply order in respect of the consignment not yet due for supply, or

c) To cancel the supply order or a portion thereof, and if so desired to purchase the stores at the risk and cost of the defaulting supplier and also-

d) To extend the period of delivery with or without penalty as may be considered fit and proper, the penalty, if imposed shall not be more than the agreed Liquidated Damages referred to in clause (a) above.

e) To forfeit the security deposit full or in part.

f) Whenever under this contract a sum of money is recoverable from any payable by the supplier, Coal India Limited and its subsidiary companies shall be entitled to recover such sum by appropriating, in part or in whole by deducting any sum from any other contract should this sum be not sufficient to cover the full amount recoverable. The successful bidder shall pay Coal India Limited and its subsidiary companies on demand the remaining balance.

The supplier shall not be entitled to any gain on any such purchase.

16. SUBMISSION OF BILLS:

a. For claiming 80% payment, following documents are to be submitted along with original bills as per terms of the supply order to the consignee.

- i). Pre-receipted and stamped Invoice as per GST Pre-receipted and stamped Invoice (and/ or Original Buyer's copy of invoice as per GST laws)
- ii) Packing list in original list giving details of bill of materials, if applicable:
- iii) Consignment note / RR/ LR in original.
- iv) Warranty / Guarantee and Special Guarantee certificate, if applicable.
- v) Manufacturer's test certificate, if applicable.
- vi) DGMS / BIS / Pre dispatch inspection certificates / any other document, if required as per the contract.
- vii) Performance bank Guarantee as per terms of the order
- viii) Any other document indicated elsewhere in the order.

b. For Claiming 20% payment, the following documents are to be submitted.

- (i) Pre-receipted and stamped bill for 20% payment.
- (ii) Commissioning Certificate from the respective Area Manager / Staff Officer (Excv)

17. Force Majeure Clause: If the execution of the contract/supply order is delayed beyond the period stipulated in the contract/supply order as a result of outbreak of hostilities, declaration of an embargo or blockade, or fire, flood, acts of nature or any other contingency beyond the supplier's control due to act of God then Coal India Limited or its subsidiary companies any allow such additional time by extending the delivery period, as it considers to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by the Coal India Limited and its subsidiary companies, the contract/supply order shall be read and understood as if it had contained from its inception the delivery date as extended.

18. Manufacturing certificate: As the order is being placed on the basis of consideration that you are a manufacturer of the ordered material, you will have to provide a certificate to the following effect on the body of each bill.

"Certified that the items supplied and included in this bill/ invoice are our own make and have been actually manufactured in our works situated at _____ (address of the factory)

19. Integrity Pact: Integrity Pact as per format (Annexure E of the NIT) signed and furnished by you along with the offer shall remain valid and applicable for this contract.

The name of the IEMs for this order are

Signature
Signature

Signature
13/10/18

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Supply Order no 11000114318121 dt 13.10.2018, M/s ATS ELGI Ltd

- i. Shri A.K.BAJAJ, Ex-Chairman, CWC, A-167, Defence Colony, New Delhi-110024
- ii. Shri A.K.Mohapatra, Qrs no B-5/9, Unit - 9, Bhoi Nagar, Bhubaneswar

20. Price Certificate: As undertaken by you in your offer, that you have not supplied / are not supplying similar product systems or sub systems at a price lower than that ordered price in respect of any other ministry/ department of the Govt. of India or a PSU and if it is found at any stage that similar product / Systems / Sub systems was supply by you to any other Ministry / Department of the Government of India or a PSU at a lower price, then that very price with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by you to NCL, if the contract has already been concluded, a certificate to this effect shall be submitted by you along with your supplies.


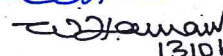
You will furnish the following certificate to the Consignee / Paying authority along with the bills:

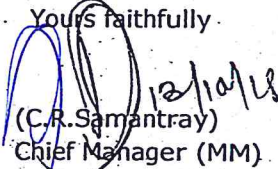
"I/We certify that I/We have not supplied / are not supplying similar product / systems or sub systems at a price lower than that ordered price in respect of any other Ministry / Department of the Government of India or PSU"

Failure in submission of aforesaid certificate by the contract holder, may result in with holding of the payment of their bills against supply.

Unless otherwise specified above, the purchase order shall also be governed by the terms and conditions given in the General terms and conditions enclosed.

This order is issued with this acceptance. Kindly acknowledge the receipt of this order.



1310/18
(Y. Venkata Ramana)
Sr. Manager (MM)

Yours faithfully

(C.R. Samantray)
Chief Manager (MM)

Enclosures:-

- | | | |
|------------|---|--|
| Annexure-A | : | Detailed technical Specification of Mobile Service Units |
| Annexure-B | : | List of Standard Tools |
| Annexure-C | : | List of consumables & spares |
| Annexure-D | : | General Terms & Conditions |
| Annexure-E | : | Bank Guarantee format |

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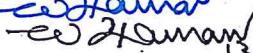
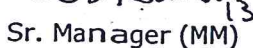
1. GM(Excv) HOD, WCL(HQ), Nagpur
2. AGM / SO(Excv)/ SO(MM)/ AFM/ Depot Officer, WCL, Ballarpur / Umrer / Wani / Majri / Nagpur / Chandrapur Areas
3. GM(CP)/ GM(Fin.) , WCL Hq., Nagpur
4. GM(P&P), WCL(HQ); Nagpur
5. TS to DT(P&P), WCL, Nagpur
6. RD, CMPDIL, RI IV, Nagpur
7. GM(MM), SECL, MCL, CCL, BCCL, ECL, NCL
8. Sr. Manager (MM/Admn.), WCL(HQ) - The Landed value of the order is Rs.5,53,42,000.00
9. Shri A.K.BAJAJ, Ex-Chairman, CWC, A-167, Defence Colony, New Delhi 110024
Shri A.K.Mohapatra, Qrs no B-5/9, Unit - 9, Bhoi Nagar, Bhubaneswar
10. Chief Manager (Excv) EED, CIL, Regional Sales Officer, Geeta Mansion, 4th floor, KG Road, Bangalore

Indent details:

- i. Indent No. 1461 dt 08.10.2018 against approved Shopping List of HEMM for the FY 16-17
- ii. Indent no 1455 dt 31.03.2018

BC Reference: FA/WCL/CAP/BC/HEMM/263 dated 12.10.2018 for Rs.5,53,42,000.00

This is issued with the approval of Board of Directors, WCL in their 304th meeting held on 22.09.2018, as per resolution circulated by Company Secretary vide ref no WCL-BD/SECTT/BM-304/2018/541 dt 09.10.2018.



1310/18
Sr. Manager (MM)


1310/18
Chief Manager (MM)

Detailed technical Specification for for supply of Mobile Service Units

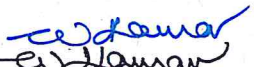
Supply Order no 11000114318121 dt 13.10.2018 M/s ATS ELGI Limited Specification Parameter
1.0:A Fabricated Mobile service Van complete in all respect as per technical parameters .The body of the Van shall be mounted on a new truck cab -chassis of TATA Model LPT1613
Make & Model of offered Equipment (Mobile Service Unit) : ATS ELGI Limited
2.0:The Mobile Service Van shall have the following units/assemblies for different service/repair facilities.
2.1:Diesel Engine Driven Welding Generator.Set. Welding current range 50-500A, Open Circuit Voltage 70V, air cooled, step less current variation, Protection for overheating of electrode or sticking in case of short circuit and protection for over load & safety of personnel. Diesel Engine should be of make ADOR make & have capacity of 38 to 45 HP at 1500 to 1800 RPM, water cooled, Electrically start (fitted with self starter & alternator), fitted with a fuel tank ranging 45 to 70 litre capacity and with Governor (to control the engine speed).
2.2: One No. Reciprocating Air Compressor of make Elgi , driven by diesel Engine with Piston displacement of 500 Ltrs/Min (approximately) at 175-200 PSI working pressure with vertical Air Receiver of 250 Ltrs. (approximately) capacity alongwith standard accessories like safety valve, pressure gauge, drain valve etc.
2.3:One no. Air Operated Grease Pump of ATS ELGI make suitable for mounting on standard 200 Kg barrel with follower plate and drum cover. The pump should deliver minimum 400 gms of grease per minute. The working ratio should be 50:1 with built in air regulator to control air pressure. The unit should be complete with 1 mtr Inter connecting grease hose and 1 mtr connecting air hose and capable to deliver a blocked pressure of 425 Kg/cm ² rated pressure.
2.4:One no. Grease Hose Reel of Samoa make self winding type with 10 mtrs long hose & ratchet and pawl arrangement with control gun.
2.5:One no. Tyre inflator of ATS ELGI make , operating pressure 0-10Kg/sq. Cm ² with 40 ft. hose, suitably mounted in self winding hose reel, hand control valve with suitable hose length, dual foot connector in complete Assy.
2.6:One no. Water tank and pump completely covered of 500 ltrs. Capacity (approximately) having 20-25 mtrs delivery hose of suitable diameter. The water pump should be air operated with built in Air Regulator to control the input of Air pressure for safe guarding the pump working. A compensating vessel is to be provided at the outlet of the unit to reduce any oil fluctuations.
2.7:Four nos. Air operated low-pressure oil pumps of ATS ELGI make with 04 nos. suitable positive displacement flow meters suitable for mounting on standard oil barrel of 200 litres capacity. The capacity of the pump should be 10-12 ltrs/min. The working ratio may be 3.5:1. The pump should also have built in Air Regulator to control the input of Air pressure for safeguarding the pump working. A compensating vessel is to be provided at the outlet of the unit to reduce any oil fluctuations.
2.8:One no. Oil transfer pump of ATS ELGI make for transfer of oil from one barrel to another with 10 to 12m hose length.
2.9:Working table of ATS ELGI make of 1200 mm x 600 mm x 900 mm dimension (approxomately) fitted with bench-vice along with one no. Toolbox to be provided.
2.10:Monorail Crane of Indef make of minimum 1 tonne capacity with chain pulley block, projected outside to enable for lifting the oil/grease barrels to be provided. Provision for adjustable extension for clear reach 3 feet (minimum), outside the chassis.
2.11: Fire Extinguishers (OMEX make)-Two Nos. of capacity 05 kg each, should be provided - One fire extinguisher should be gas type and another one of foam type.
2.12: Folding Ladder of ATS ELGI make -One No.
2.13: Pneumatic Grinder with grinding wheels of ATS ELGI make - straight and angular mounted on pedestal-One No.
2.14:Hand operated portable pneumatic grinder of ATS ELGI make -One No.
2.15:Trigger operated Air Blow Gun of ATS ELGI make -One No.
2.16:Hyd. Jack (manually operated) of Kennedy make capacity 5 Ton and 10 Tonne (One no each)- Total 2 Nos
2.17:The housing/body of ATS ELGI make of sheet metal shall be fabricated with doors on three sides for easy accessibility from all three sides.
2.18:The driver's cabin of ATS ELGI make should be constructed with provision of adjustable seat for driver with retractable seat belt and seating arrangement for 4-5 persons, along with the driver.
2.19:All Necessary safety features as per ARAI.


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Signature

Supply Order no 11000114318121 dt 13.10.2018, M/s ATS ELGI Ltd

2.20:Audio Visual Alarm for reversing(shall automatically operated, while reversing) of Xenos make
2.21:A copy of drawing indicating the proposed layout of the above items in chassis along with technical detailed description of all items as submitted by you along with your offer is to be enclosed.
2.22:Set of standard tool kit to be provided
3.0: GUARANTEE/WARRANTY:
a). The supplier shall guarantee for the satisfactory performance of the equipment for a minimum period of 12 months from the date of commissioning or 18 months from date of receipt and acceptance of items , whichever is earlier. In the event of any defects in materials, design and workmanship during the aforesaid period is found due to faulty design or poor workmanship, the defective items will be replaced by the supplier at site free of cost within 21 days of settlement of warranty claims. The bidder will be required to stock items to take care of warranty failures.
b) The guaranty/composite warranty shall be submitted along with the bill. The warranty shall cover for the total equipment so that the necessity of having to approach different manufacturers of various components/assemblies does not arise and all services under warranty clause shall be the responsibility of the ultimate supplier of the composite unit. You will replace the defective items, if any, during the warranty period free of cost. The responsibility to collect the defective/rejected material will lie with the supplier and the cost for such collection will have to be borne by the supplier.
c) The supplier shall warrant that the items supplied under the contract/ supply order :- (i)Is in accordance with the contract specifications. (ii)Shall have no defects arising out of design, materials or workmanship (iii)Is new, unused and of current design not likely to be discontinued or become obsolete till the life of the offered equipment
4.0 :DOCUMENTS TO BE SUBMITTED WITH THE SUPPLY :
4.1: Documents necessary for safety and other clearances/ approvals from Govt. and other regulatory bodies as applicable. . However, The Registration charges, Road Tax and other RTO charges shall be borne by WCL. However, expenses towards temporary registration will be borne by the supplier.
4.2: Set of Operation, Maintenance and Spare parts literature / manual (covering complete composite unit)
5.0 Inspection: WCL reserves to carryout Pre-despatch inspection before despatch of the equipments. Final inspection shall be carried out by the consignee project authorities at destination
6.0 Performance Guarantee: The equipment shall be guaranteed for satisfactory performance for initial one year period. Performance Bank Guarantee shall be released to the supplier after satisfactory performance during the guarantee period.
7.0 After Sales Service Support: Shall be provided by the supplier during the Guarantee period and the same shall be available to WCL for entire performance Period.
8.0 Address, telephone numbers and name(s) of the Contract person, authorised by the supplier for after sales service support for the machine. : Centralised Customer care 1800-425-3544


13/10/18
(Y. Venkata Ramana)
Sr. Manager (MM)


13/10/18
(C.R. Samanthra)
Chief Manager (MM)





ATS ELGI
Think Long Run

To:
The Tender Committee
MM Department
WCL, Nagpur

Sub : Details and Technical Parameter of Mobile Maintenance / Service Van

Rear Body Specification		
S.No.	Description	Detail
1	Size of the Rear body	Length - 6000 mm Width - 2400 mm Height - 2100 mm
2	Butterfly Doors	(i) 2 Nos butterfly door on either side. (ii) 1 no butterfly door in rear side
3	Windows	3 nos sliding glass window and 2 nos fixed glass window in rear door
4	Lighting	DC Jamps - 2 nos (Inside), AC Jamps - 4 nos (Inside) Side indicator - 4 nos (outer)
5	Material detail of base frame	1. C- channel (75x40mm) 2. L- angle (40x40mm) 3. Chequered sheet 4mm thick (Base)
6	Material detail of side frame	1. L- angle (40x40mm) 2. Rectangle tube (80x40mm) 3. Sq. tube - (40x40mm) 4. MS sheet - 18 swg 5. Alu sheet - 20 swg
7	Material detail of top frame	1. L- angle (40x40mm) 2. GI sheet - 18 swg 3. Alu sheet - 18 swg
8	Rear body locking set	1. U- bolt (MS) 2. Taper washer 3. Nylon nut (M16)
9	Painting detail	Surface preparation - ATS standard. Outer painting - Customer Required
10	I- beam	Mono rail - Projected type size - 200x100.
11	Type of welding	Arc welding

Details of Other Equipments Installed can be referred to the respective Equipment leaflets.

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For ATS ELGI LIMITED

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Authorised Signatory

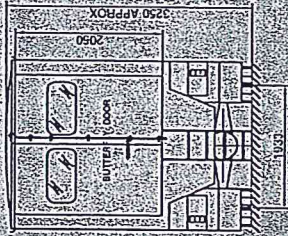
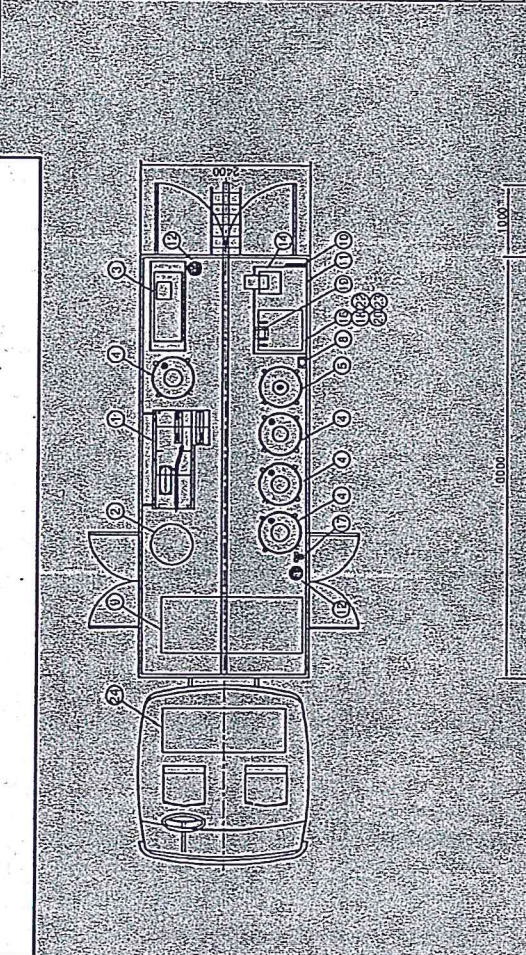
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13/10/14

ATS ELGI LIMITED, Kurichy, Coimbatore - 641 021, India. Tel.: 91 422 2589999, Fax: 91 422 2589800.

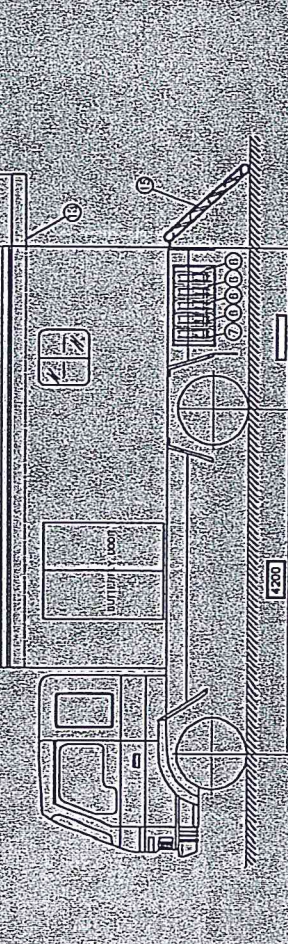
Web : www.ats-elgi.com | CIN : U34300TZ2007PLC014125.

CAD FILE NAME: 08173270

SL NO	DESCRIPTION	QTY	REMARKS
17	ELC AIR COMPRESSOR MODEL TR41 DRWD: 07/27 HP DIESEL ENGINE	1	11/16
18	AIR RECEIVER TANK 250L CAPACITY	1	11/16
19	SAND MAKER OVERHAUL PUMP 0750 WASSER INSTALLED ON 500 CAPACITY WATER TANK WITH SELF WINDING 20HP 1PSE	1	11/16
20	AIR OPERATED OIL PUMP INSTALLED ON 100L CAPACITY DRUM	1	11/16
21	SAND MAKER SELF WINDING ROSE REEL FOR OIL WITH 10 METERS HOSE	1	11/16
22	SAND MAKER SELF WINDING ROSE REEL FOR GREASE WITH 10 METERS HOSE AND FLOW METER	1	11/16
23	AIR OPERATED OIL TRANSFER PUMP	1	11/16
24	WELDING GENERATOR 100V/240V	1	11/16
25	ATIS ELEC WELLS MODEL TYPE: IMP/ATR-1 ANALOG TYPE	1	11/16
26	WORK BENCH WITH BENCH VICE	1	11/16
27	WELDER (MAGNETIC) 45 KG (GAS/CO2) (TIG TYPE)	1	11/16
28	MONG PAL WITH CHAIN PULLEY BLOCKS 1 TON CAPACITY	1	11/16
29	CHAIN PULLEY BLOCK 1 TON	1	11/16
30	TOOLS BOX WITH STANDARD TOOLS	1	11/16
31	PNEUMATIC GUN (AIR) (SPRINTS)	1	11/16
32	PORTABLE AIR WASHING SPRAYER (INSIDE TOOLS BODY)	1	11/16
33	PNEUMATIC BENCH GRINDER	1	11/16
34	PNEUMATIC WHEEL GRINDER (INSIDE TOOLS BODY)	1	11/16
35	AC/DC WELDER (FITTED ON BOSS)	1	11/16
36	100L OIL TANK	1	11/16
37	TRUCK OPERATED ON FLOW BOOM	1	11/16
38	GRINDER CABINET AIR PUMP EXHAUST CAPACITY	1	11/16



VALUE	UNIT	SYMBOL	2000	1000	500	250	125	63	32	16	8	4	2	1
0.05	mm	VS	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50	100



ATISELGI
ATISELGI LIMITED
COIMBATORE, INDIA

MOBILE SERVICE UNIT

APPROX WEIGHT: kg SURFACE AREA: mm²

IRP: DRG. No. 271216 NEXT ASSY: 271216

SCALE: 1:1

DATE: 27/12/16

DESIGNED BY: RK

CHECKED BY: RK

APPROVED BY: RK

DRG SHEET: 01 OF 01

REV: 0

DO NOT SCALE THIS DRG. IF IN DOUBT, ASK ENGINEER.

ATISELGI LIMITED

Authorised Signatory

REVISIONS:

REV. NO.	DATE	DESCRIPTION	CHG. BY	CHK. BY
01	27/12/16			

ALL UNSPECIFIED TOLERANCE REFER DRG. NO. 12454250

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

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THIS IS ONLY A PROFESSIONAL DRAWING SUBJECT TO ALTERATION WITHOUT NOTICE

© ATISELGI LIMITED, 1913, WHEEL SILE 4200

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Handwritten signature and date: 12/10/18

9/36

ENCLOSURE

ELGI

Compressor for Elgi

Technical Specifications

01	Model	TS 04 120 HN 220/420 hrs	
02	Type	Reciprocating, Air cooled, Splash lubricated	
03	Displacement	m ³ /h	30
		lpm	501.27
		cfm	17.7
04	Free air delivery @ 10 bar	m ³ /h	24.6
		lpm	409.79
		cfm	14.47
05	Working pressure	kg/cm ²	12
06	Type of configuration	V	
07	Compression stages	No.	2
08	Cylinders	No.	2
09	Cylinder size & stroke	mm	90 x 50 x 85
10	Type of piston rings		Dia 90 Dia 50
	a) Plain compression	No.	1 1
	b) Stepped compression	No.	1 1
	c) Slotted oil control	No.	2 2
11	Clearance between piston crown and cylinder top	mm	0.95 to 1.35
12	Type of valve	Finger	
13	Volumetric efficiency	%	78
14	Compressor speed	rpm	925
15	Motor type	Sq. cage, Ind. TEFC	
16	Motor rating	HP	5
		kW	3.7
17	Motor speed - syn.	rpm	1430
18	Motor frame size	112 M	

Customer's copy

FOR ATS ELGI LIMITED

B. K. Velan
B. K. Velan



FOR ATS ELGI LIMITED



Authorized Secretary

[Signature]

10/36
21/01/18



COMPRESSOR TOP FLOOR

Technical Specifications

19	Degree of protection		IP55
20	Class of insulation		F
21	Electric supply		
	a) Voltage	V	415/380
	b) Phase		3
	c) Frequency	Hz	50
22	Type of starter		DOL
23	Belt size & qty		B.74 x 2
24	Specific power consumption	kW/m ³ /h	0.1480
25	Type of lubrication		Splash
26	Type of cooling		Air
27	Type of fan		Forced draught
28	Oil fill capacity	ml	580max - 440 min.
29	Grade of oil (Servo Press)		
	a) -15 to +80 deg C		ELGI AIRLUBE
30	Outlet air temperature	Deg C	10 above ambient
31	Air outlet size	BSP	3/4"
32	Pressure switch set pressure		
	a) cut off	kg/cm ²	12
	b) cut in	kg/cm ²	9
33	Safety valve set pressure		
	a) Intercooler	kg/cm ²	6
	b) Aftercooler	kg/cm ²	16.2
	c) Air receiver	kg/cm ²	14
34	Air receiver capacity	litre	220 420 litres
35	Overall dimensions (LxWxH)	mm	1595 x 585 1680 x 665 x 1095 x 1250
36	Nett weight	Kg	200

For ATS ELGI LIMITED
 B. Kathan Velan
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For ATS ELGI LIMITED
 [Signature]
 Authorised Signatory
 COIMBATORE

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 11/36
 13/10/18

CATERPILLAR - ENGINE

TECHNICAL DETAILS

TYPE OF ENGINE	444	445	446
CLASS	28	32	35
BORE - mm	78	82	86
STROKE - mm	85	85	85
DISPLACEMENT - cm ³ (cubic in.)	224 (13.7)	259 (15.8)	270 (16.5)
COMPRESSION RATIO	13.0	13.0	13.0
BREAKEAK	3000	3000	3000
MAXIMUM RPM	2000	2000	2000
MAX. TORQUE (kg-m) (Nm)	10.0 (73.5)	11.2 (82.7)	12.0 (88.3)
CONNECTION OF FUEL SYSTEM	Direct Injection	Direct Injection	Direct Injection
FUEL CONSUMPTION - gph (litre/hr)	10.0	11.2	12.0
CAPACITY OF FUEL TANK - LITRE	100	100	100
CAPACITY OF OIL TANK - LITRE	10	10	10
DRY WEIGHT - kg	100	100	100
DIRECTION OF ROTATION	Counter-clockwise	Counter-clockwise	Counter-clockwise
GOVERNOR TYPE	Hydraulic	Hydraulic	Hydraulic
STARTING	Electric	Electric	Electric
DIMENSIONS (mm) (in.)	444 (17.5) x 444 (17.5) x 444 (17.5)	445 (17.5) x 445 (17.5) x 445 (17.5)	446 (17.5) x 446 (17.5) x 446 (17.5)

ENGINE RATING - The output of the engine is certified within 3% after run-in with standard air filter and muffler, for 2000 rpm at standard conditions: For IS-10001 ambient temp. 27°C, 60% relative humidity, and air pressure of 1013 mb (30 in. Hg). Approx. 100% above sea level.

DERATING - Approximately 1.4% for every 100 m altitude above sea level for every 5°C above 27°C. The engine is not to be operated at site conditions.

C. J. Jeyaraj
C. J. Jeyaraj

FOR ATSE/ELG LIMITED

(B. K. Velan)
(B. K. Velan)



For ATSE/ELG LIMITED
S. Jeyaraj
Authorised Signatory



(S. Jeyaraj)

12/1/11

CHREAS ENGINE

Engine Model 1520/1530

	1520	1530
A	123.5	140.5
B	347.5	364.5

Engine Model 1523/1533

	1523	1533
A	123.5	140.5
B	352.5	369.5

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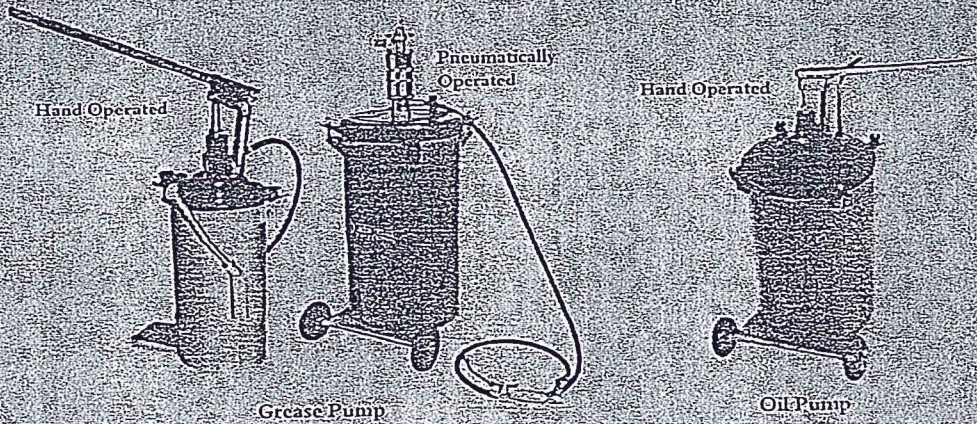
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Lubricating Pumps



The A/S ELGI Pumps in Black & White

Pneumatically Operated		Grease Pump GP 50/001	Oil Pump OP 03/002	Oil Transfer Pump OP 01/003
Pressure Ratio		50:1	35:1	15:1
Output at 8.5kg/cm ² air pressure	lpm	100-100	14	20-25
Output at 6.5kg/cm ² air pressure	lpm	5		
Max working pressure of air	kg/cm ²	10.5	10.5	10.5
Recommended working pressure of air	kg/cm ²	4.5 to 8.5	8.5	6.5
Normal blocked pressure at 8.5kg/cm ²	kg/cm ²	125	29.75	
Air requirement (FAD)	lpm	325	325	325
Grade of oil / grease to be handled		All grade	All grades	All grades
Type of hose		Wire braided Oil resistant High pressure Hose	Wire braided Oil resistant Hose	Wire braided Oil resistant Hose
Delivery hose length	m	1.3/2.2	3.5/1.1	
ID of hose	mm	6	12.7	20
Drum capacity	litres	50/200	50/200	200

The A/S ELGI Pumps in Black & White

Hand Operated		GH 00/004 - Grease	OH 00/005 - Oil
Type		Single Cylinder, Portable & Static Drum type with cover	Single Cylinder, Portable & Static Drum type with cover
Output per stroke		2g	0.1 litre
Blocked pressure	kg/cm ²	140	35
Type of hose		Wire braided, Oil resistant, High pressure Hose	Double rayon braided Hose
Delivery hose length	mm	2.2	2.2
ID of hose	mm	6	12.7
Drum capacity		3/10/20 kg	10 litre

E. J. Hannon
E. J. Hannon

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D. V. N. V. V. V.



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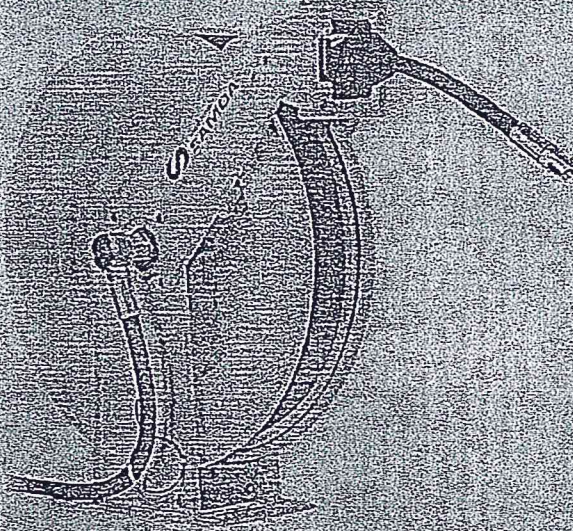


501 SERIES DOUBLE PEDESTAL ARM HOSE REELS

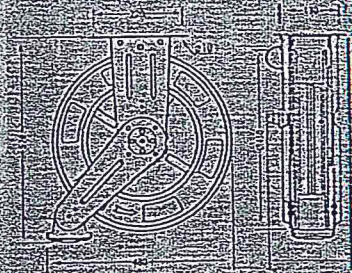
10 M OPEN TYPE HOSE REELS - 501 SERIES

501-200

Applications: Delivery of compressed air, low pressure water, lubricants and grease in vehicle maintenance centres, general industry, agriculture, service stations, etc.



Dimensions (mm)



Double pedestal hose reel for air, low pressure water, medium pressure lubricants and high pressure grease. All metal arm construction, can handle up to 10 m (30') of 1/2" hose.

Main features:

- Brays forged shaft compatible with a wide range of fluids ensures corrosion free and leak proof operation.
- Robust all steel construction with double pedestal arm design.
- Special fatigue resistance steel spring for years of durable performance.
- Positionable outlet arm for an optimum operation in any mounting position: wall, ceiling, floor or tank.
- Epoxy powder coated for increased wear resistance.
- No special maintenance required.

PART No.	HOSE LENGTH	HOSE DIAMETER NOMINAL O.D. x I.D.	OUTLET THREAD	INLET THREAD	HOSE TYPE	HOSE PRESSURE RATING	HOSE BURST PRESSURE	NET WEIGHT	WITHOUT HOSE PART No.
COMPRESSED AIR AND LOW PRESSURE WATER									
501-100	10 m - 30'	3/8" 12 x 10 mm	R 3/8" NPT	R 1/2" NPT	A	20 bar - 300 psi	45 bar - 650 psi	17.9 kg	501-198-01
OIL - ANTIFREEZE - AIR AND WATER									
501-200	10 m - 30'	1/2" 14 x 12.5 mm	G 1/2" FKM D	G 1/2" FKM D	D	100 bar - 1,500 psi	400 bar - 6,000 psi	20.0 kg	501-298-01
GREASE									
501-300	10 m - 30'	1/2" 14 x 6.4 mm	R 1/2" NPT	G 1/2" FKM D	E	350 bar - 5,000 psi	1,300 bar - 20,000 psi	19.2 kg	501-398-01

(1) 1/2" size applies for hose line. Maximum working pressure is the maximum working pressure of the individual components used, normally the hose.
 (2) Swaged male tapered threads.
 (3) Swaged 616 hose, not any other double main adapter.
 All models with hose include a 0.8 m (2.5') hose reel.
 Note: Item see page 46.

FOR ATS' ELGI LIMITED

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FOR ATS' ELGI LIMITED

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 B. Kathiravelan



Authorized Signatory

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 15/36
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SILENT CHALLENGER 501

New Generation Diesel Engine Driven Silent Welding Set
Conforming to the Latest CPCB II Norms



- Conforming to latest CPCB norms for noise & exhaust emission level
- Versatile applications, including cross country, inplant pipe and tube welding
- Ideal for heavy fabrication & site applications
- Highly reliable even in hostile site conditions
- Big savings in fuel and longer runs before next refueling
- Specially proven with Cellulosic (6010, 7010 G & 8010G types) and other special types of electrodes
- Excellent Pre and Post-Sales Services
- Super Silent Operations

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WELDERS TO THE NATION SINCE 1951
ADOR WELDING LIMITED
Formerly known as Advani-Oerlikon Ltd. www.adorwelding.com



B. Kathirvelam

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SILENT CHALLENGER 501

Built for extra Reliability and Fuel Savings



TECHNICAL SPECIFICATIONS

MODEL	UNIT	SC 501
CPCB compliance		Meets CPCB-II compliance for Exhaust Emission and Noise within 75 dba at 1 mtr.
WELDING GENERATOR		
Welding Generator	Type	Brushless type, high frequency generator, specially designed for welding applications, constant current (CC) characteristic with welding less commutator less, magnet less, sparking less and rotating diode less rotor construction for maintenance free and reliable operation.
Welding process	Type	SMAW (Shielded Metal Arc Welding)
Operators	Qty	Single
Welding current range	Amps	50 - 500
Max hand welding current	Amps	500
Max hand welding current @ 60% duty cycle	Amps	500
Max hand welding current @ 100% duty cycle	Amps	400
Open circuit voltage (Max / Min)	Volts	100 / 5
Diameter of contact electrode	mm	2.5 - 6.3
Insulation Class	Type	F
ENGINE		
Make		SIMPSON
Type		SJ 327T (CPCB-II compliant)
Cylinder	No.	3
Rated engine speed	REV	1800
Engine cooling	Type	Water cooled
Engine rating	BSIP	38.5 @ 1800 rpm
Complies to	Standard	IS 10002 (BII)
Starting	Type	Electric (Battery 12 V, 75 Ah)
Fuel consumption @ 60% duty cycle	L/hr	4.0 liter @ 100% Duty Cycle
Fuel tank capacity	Ltr	70
Warning/Conc. Indications	Type / Relays	Low oil pressure, Fuel level indication, Battery charging current, Charging failure warning lamp, Engine Speed, Hour meter, etc.
Optional Engine safety protection	Type	Engine auto shut off in the event of low lube oil pressure (or) high cylinder head temperature
AUXILIARY POWER SOURCE (Indicates rating with simultaneous welding load)		
Rating	KVA	10
Voltage	Volts	415
Phases	No.	3
MCCB rating	Amps	16
Output Sockets	No.	2
GENERAL (Dimensions & Weight)		
LxWxH (Skid mounted)	mm	1935 x 620 x 1520
Weight (skid)	Kg	1100
LxWxH (2 wheel mounted)	mm	2900 x 1435 x 2100
Weight (2 wheel)	Kg	1240
LxWxH (4 wheel mounted)	mm	3435 x 1555 x 1950
Weight (net)	Kg	1340

Warranty: One year from the date of purchase. ADOR WELDING LIMITED warrants that all new equipment sold from Plan/Area Offices / Authorised Distributors are free from defects in materials and workmanship and in view of continuous development, ADOR WELDING LIMITED reserves the right to modify/change the design and for the specifications without any prior notice. Backed by dedicated customer care package.

For ADOR ELGI LIMITED

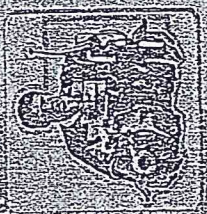
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WELDERS TO THE NATION SINCE 1951
ADOR WELDING LIMITED
 Formerly Known as Advani Oerlikon Ltd.
 www.adorwelding.com
 Corporate Marketing Office, Survey No-147/1, 2B-13, Near Akurdi Chowk,
 Chinchwad, Pune - 411 019, Maharashtra, INDIA
 Tel: +91 20 4070 6000, Fax: +91 20 4070 6001, Email: cmo@adorwelding.com

For ELGI LIMITED

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 17/36
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Features of LPT 1613



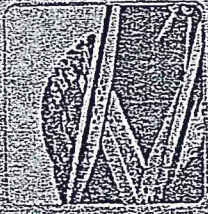
Proven engine technology

The Tait 697 (BS III & BS IV) and Tait Cummins (BS III) engines offer an optimised torque curve to give you the ideal combination of pulling power and fuel efficiency.



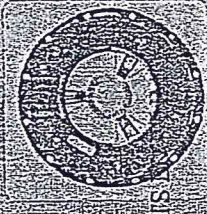
Tait GBS 600 Gearbox

A 6 speed gearbox with mechanical linkage allows easy to maintain and has a longer life.



Strong & robust chassis

Bolled & riveted chassis with best practice rib (mass) of 7mm.



Bigger & harder cuttych

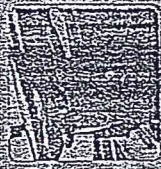
Ceramic clutch with 342mm dia. longer diameter blades (clutch) for superior performance & longer life.

Ergonomically designed crew cabin

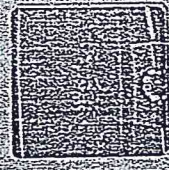
Our air conditioned cabin is ergonomically designed to provide better comfort for your crew and up to 1000 litres of fuel capacity with minimum weight. Spine of the cabin features a 700mm wide door for easy access.



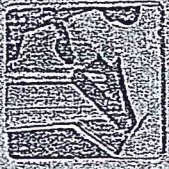
Simple to operate



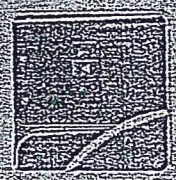
Steering lock



Economic instrument cluster



Client control



Particulate filter

Engine

Engine	Tait 697 BS III	Tait Cummins 697 BS III
Wet Weight (kg)	4225	4805
Overall Length (mm)	7310	8325
Rear Overlap (mm)	1970	2285
Unbraked Weight (kg)	4160	4820
Unbraked FAW (kg)	2555	2825
Unladen GVW (kg)	1935	1900
		2010

Weights and dimensions

LPT 1613 Core

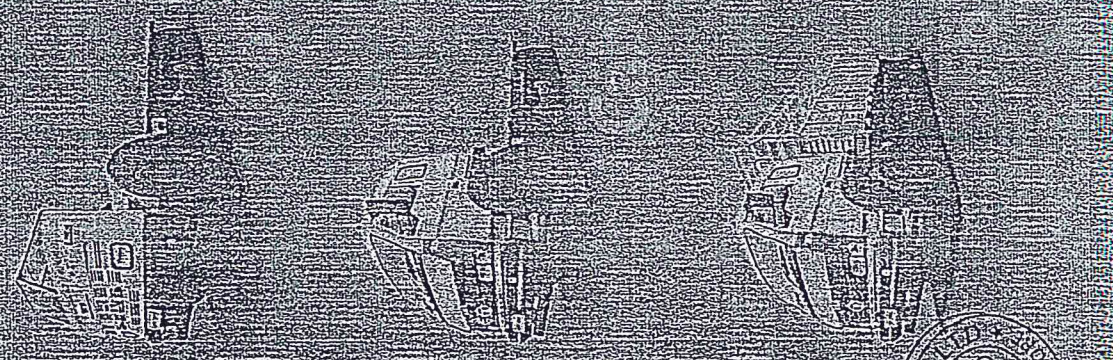


B. K. Kulkarni

Kulkarni

13/10/17

18/36



Tata LPT 1613 Technical Specifications

Engine	Model LPT 1613 (IS1105) LPT 1613 (IS1105) CCAS LPT 1613 (IS1105) CCAS	Power (kW) 155 (210) 155 (210)	Speed (km/h) 24.00 24.00
Chassis	Type Single Rigid (Rigid Frame) with 4 wheel drive	Weight (kg) 3550	Capacity (liters) 150 (Fuel tank) 100 (Water tank)
Gearbox	Model No. of gears	Type Extra Heavy Duty Frictionless Power Shift (EHPSS)	Transmission Extra Heavy Duty Frictionless Power Shift (EHPSS)
Front Axle	Model Ratio	Type Independent Hydraulic Power assisted Steering	Front Axle Independent Hydraulic Power assisted Steering
Steering	Type Power Assist	Brakes Spring actuated Parking Brake acting on Rear Wheels	Steering Independent Hydraulic Power assisted Steering
Frame	Type Dimensions (mm)	Suspension Type	Frame Type Dimensions (mm)
Wheels/Tyres	Type Tyre Size	Wheels/Tyres	Wheels/Tyres
Performance	Max. Ground Speed (km/h)	Performance	Performance



TATA ENGINEERING AND LOCOMOTION LIMITED
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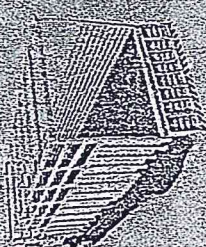
B. K. SINGH
 Authorised Signatory

Uttam
Uttam

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ENGINE COUPLER 527 TATA

Benefits of LPT 1613



Enjoy high revenue

Choose the LPT 1613 configuration that suits your needs through multiple payload and body options. Moreover, its higher top speeds mean longer non-stop trips, and its longer service intervals mean lower downtime for your business.

Lower cost of ownership

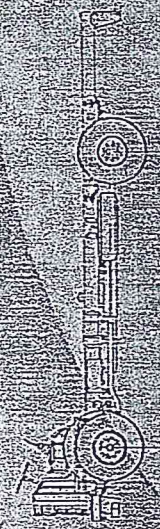
Enjoy the double benefit of low cost maintenance and low cost of spares. Add to that hassle-free maintenance thanks to Tata Motors' 200-strong dealer service network (India's largest) and an additional 145 minor Authorized Service Centres.

Lower cost of operations

Minimise your operating costs thanks to higher fuel efficiency and longer tyre life - a result of our proven & efficient driveline and advanced vehicle engineering.

Better performance

Backed by Tata Motors engineering, LPT 1613 provides better performance through a combination of a top-spec 1613 engine & gearbox.



Tata LPT 1613



Tata Motors

Authorised Showroom

The illustration of wheelbase shown may be approximate and is not to scale.

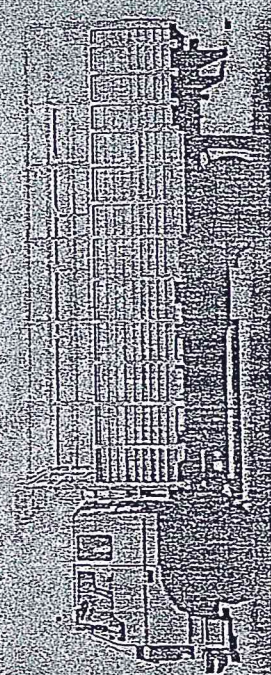
W. Dhanan

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More payload, engine & body options

An array of options to suit different business applications

Wheelbase	Load Capacity	Engine	Com	Sleeping Cabin	Fully Built Body With Storage Cabin
4225 mm	5498 mm (18 ft)	697 BS III Cummins 6BT BS III	✓	✓	HSD / FSD / Drive
6055 mm	6090 mm (20 ft)	697 BS II 697 BS IV 697 BS II Cummins 6BT BS III	✓	✓	HSD / FSD**
5195 mm	7915 mm (26 ft)	697 BS II Cummins 6BT BS III	✓	✓	HSD / FSD**
6200 mm	9785 mm (32 ft)	Cummins 6BT BS III	✓	✓	HSD / FSD**



Wooden Axles & Steel Axles Body with 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.



TATA Deight

TATA MOTORS
CAUTION: Read the manual carefully before using the vehicle. For more information, visit www.tatamotors.com or call 1800-200-2000.

Customer
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ATS ELGI
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To
The Tender Committee
MM Department
WCL, Nagpur

Sub : Operation and Maintenance / Service Manual

We Hereby Declare that the Operation and Maintenance / Service Manual for the Service Van Will be provided along with the Supply of the Mobile Service and Maintenance van as most of the items are booklets

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For ATS ELGI LIMITED

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Authorised Signatory

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13/10/18



DESCRIPTION	FEED BACK	ATS.ELGI REMARKS
0: A Fabricated Mobile service Van complete in all respect as per technical parameters .The body of the Van shall be mounted on a new truck cab -chassis of TATA Model LPT1613/ASHOK LEYLAND Model 1616/EICHER OR EQUIVALENT INDIAN MAKE: Qty : 1 nos (Additional requirement : 11 nos)	Agree	Make : TATA Model : LPT 1613 WB 4200
1: A Fabricated Mobile service Van complete in all respect as per technical parameters .The body of the Van shall be mounted on a new truck cab -chassis of TATA Model LPT1613/ASHOK LEYLAND Model 1616/EICHER OR EQUIVALENT INDIAN MAKE: Qty : 3 nos (Replacement requirement : 3 nos)	Agree	Make : TATA Model : LPT 1613 WB 4200
2: PROVENNESS CRITERIA : The Mobile service van (as specified at clause No.1.1) to be offered by the tenderer shall be considered proven provided the type and model of the equipment offered must have supplied in the past to the Mining Industry and/or to the other Industries (Private or Government/Public Sector Undertaking – Indigenous or Global) in India and performed satisfactorily for a period of not less than one year from the date of commissioning. The performance report of the item supplied by the firm to WCL shall be obtained from Areas by WCL HQ and bidders to submit the performance report of the same item applied by them to other subsidiary companies of Coal India Ltd.	Agree	
0:The Mobile Service Van shall have the following units/assemblies for different service/repair facilities.	Agree	
1: Diesel Engine Driven Welding Generator Set. Welding current range 50-500A, Open Circuit Voltage 70V, air cooled, step less current variation, Protection for overheating of electrode or sticking in case of short circuit and protection for over load & safety of personnel. Diesel Engine should be of make Simpsons/Ashok Leyland/Tata/Kirloskar Diesel Engines/Ruston/Mahindra & have capacity of 38 to 45 HP at 1500 to 1800 RPM, water cooled, Electrically start (fitted with self starter & alternator), fitted with a fuel tank ranging 45 to 70 litre capacity and with Governor (to control the engine speed).	Agree	Welding Genset Make : Ador Model : SC 501 Welding Current Range : 50 - 500 Open Circuit Voltage (Max. / Min.) : 100 / 45 Diesel Engine Make : Simpson Engine Capacity : 38.5 BHP @ 1800 rpm Starting : Electric (Battery 12 V, 75 AH) Fuel Tank Capacity : 70 L
2: One No. Reciprocating Air Compressor of make Elgi/Atlas Copco/IngersollRand/Kirloskar/Khosla, driven by diesel Engine with piston displacement of 500 Ltrs/Min (approximately) at 175-200 PSI working pressure with vertical Air Receiver of 250 Ltrs. (approximately) capacity alongwith standard accessories like safety valve, pressure gauge, drain valve etc.	Agree	Make : Elgi Model : TS 05 Piston Displacement (lpm) : 501 .27 Working Pressure : 12 Kg / Sq. cm Vertical Air Receiver Tank : 250 L (Shell & Dish : 5 mm) (With Accessories) Diesel Engine Make : Greaves Model : 1533 (7 hp)
3: One no. Air Operated Grease Pump suitable for mounting on standard 200 Kg barrel with follower plate and drum cover. The pump should deliver minimum 400 gms of grease per minute. The working ratio should be 50:1 with built in air regulator to control air pressure. The unit should be complete with 1 mtr Inter connecting grease hose and 1 mtr connecting air hose and capable to deliver a blocked pressure of 425 Kg/cm ² rated pressure.	Agree	Make : ATS ELGI Model : GP 50 001 Drum Capacity : 180 kg Working Ratio : 50 : 1 (With air regulator) Block Pressure : 425 Kg/Sq.cm

For ATS ELGI LIMITED

R. Jagan
Authorised Signatory

R. Jagan



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4: One no. Grease Hose Reel self winding type with 10 mtrs long hose & ratchet and pawal arrangement with control gun.	Agree	Make : Samoa Type : Self Winding hose reel with gun (Ratchet and pawal arrangement) Length : 10 M
5: One no. Tyre inflator, operating pressure 0-10Kg/sq. Cm ² with 40 ft. hose, suitably mounted in self winding hose reel, hand control valve with suitable hose length, dual foot connector in complete Assy:	Agree	TI Make : ATS ELGI Model : TI 10 022 Operating Pressure : 0-10 Kg/Sq.cm Self Winding Hose Reel : 10 M Accessories : Hand Control Valve & Dual Foot Connector
6: One no. Water tank and pump completely covered of 500 ltrs. Capacity (approximately) having 20-25 mtrs. Delivery hose of suitable dia. The water pump should be air operated with built in Air Regulator to control the input of Air pressure for safe guarding the pump working. A compensating vessel is to be provided at the outlet of the unit to reduce any oil fluctuations.	Agree	Car Washer - Diaphragm Type Pneumatic Operated Water Tank - 500 Lts - MS with rust proof coating
7: Four nos. Air operated low-pressure oil pumps with 04 nos. suitable positive displacement flow meters suitable for mounting on standard oil barrel of 200 litres capacity. The capacity of the pump should be 10-12 ltrs/min. The working ratio may be 3.5:1. The pump should also have built in Air Regulator to control the input of Air pressure for safeguarding the pump working. A compensating vessel is to be provided at the outlet of the unit to reduce any oil fluctuations.	Agree	Make : ATS ELGI Model : OP 03 002 Working ratio : 3.5:1 Drum Capacity : 200 L Delivery : 20 -25 lpm @ 8.5 Kg / Sq. cm (Flow Meter, Air regulator & Compensating Vessel will be provided)
8: One no. Oil transfer pump for transfer of oil from one barrel to another with 10 to 12m hose length.	Agree	Make : ATS ELGI Model : OP 01 003 Hose length : 10 m
9: Working table of 1200 mm x 600 mm x 900 mm dimension (approximately) fitted with bench vice along with one no. Toolbox to be provided.	Agree	MS Worktable - ATS ELGI Dimension -1200mm x 600mm x 900mm Bench Vice - Arete Make Size - 6" Tool Box - ATS ELGI Mounted under work table
10: Monorail Crane of minimum 1 tonne capacity with chain pulley block, projected outside to enable for lifting the oil/grease barrels. Provision for adjustable extension for clear reach 3 feet (minimum), outside the chassis.	Agree	<u>Travelling Trolley</u> Make : Indef Capacity : 1 Ton <u>Chain Pulley block</u> Make : indef Capacity : 1 ton
11: Fire Extinguishers - Two Nos. of capacity 05 kg each, should be provided - One fire extinguisher should be gas type and another one of foam type.	Agree	<u>Foam Type</u> Make : OMEX Capacity : 9 L <u>Gas Type</u> Make : OMEX Capacity : 6.5 kg

For ATS ELGI LIMITED

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Authorised Signatory
W. Jaisankar



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12: Folding Ladder -One No.	Agree	Make : ATS ELGI Mounted under rear Body
13: Pneumatic Grinder with grinding wheels – straight and angular mounted on pedestal-One No.	Agree	Make : ATS ELGI Pedestal mounted Pneumatic Grinder
14: Hand operated portable pneumatic grinder-One No.	Agree	Make : ATS ELGI Hand operated Pneumatic Grinder
15: Trigger operated Air Blow Gun -One No.	Agree	Make : ATS ELGI. Trigger operated Air Blow gun
16: Hyd. Jack (manually operated) capacity 5 Ton and 10 Tonne (One no each) -Total 2 Nos	Agree	Make : Kennedy Capacity : 5 & 10 Ton Each
17: The housing/body of sheet metal shall be fabricated with doors on three sides for easy accessibility from all three sides.	Agree	Make : ATS ELGI Butterfly doors on all 3 sides of rear body
18: The driver's cabin should be constructed with provision of adjustable seat for driver with retractable seat belt and seating arrangement for 4-5 persons, along with the driver.	Agree	Make : ATS ELGI First Row with driver and co-driver seating position Second Row with seating facility for 4-5 person with seta belts for all
19: All Necessary safety features as per ARAI.	Agree	
20: Audio Visual Alarm for reversing (shall automatically operated, while reversing)	Agree	Make : Xenos Camera fitted on rear body and display mounted in driver cabin with reverse sound
21: A copy of drawing indicating the proposed layout of the above items in chassis along with technical detailed description of all items has to be enclosed.	Agree	Enclosed
22: Set of standard tool kit.	Agree	Annexure provided for list of tools supplied

For ATS ELGI LIMITED

R. J. J. J.
Authorised Signatory

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To
 The Tender Committee
 MM Department
 WCL, Nagpur.

Sub: Standard Tools Details

The following are the details of Standard Tools Supplied along with the Mobile Maintenance Service Van.

S.No	DESCRIPTION	MAKE	MODEL / PART CODE
1	TOOLS LIST	VENUS	
1.1	DOUBLE END SPANNER 6x7 (mm)	VENUS	(L14) CML No: 9562390 - IS 2028 GP
1.2	DOUBLE END SPANNER 8x9 (mm)	VENUS	(H14) CML No: 9562390 - IS 2028 GP
1.3	DOUBLE END SPANNER 10x11 (mm)	VENUS	(A15) CML No: 9562390 - IS 2028 GP
1.4	DOUBLE END SPANNER 12x13 (mm)	VENUS	(H13) CML No: 9562390 - IS 2028 GP
1.5	DOUBLE END SPANNER 14x15 (mm)	VENUS	(C15) CML No: 9562390 - IS 2028 GP
1.6	DOUBLE END SPANNER 16x17 (mm)	VENUS	(L14) CML No: 9562390 - IS 2028 GP
1.7	DOUBLE END SPANNER 18x19 (mm)	VENUS	(D14) CML No: 9562390 - IS 2028 GP
1.8	SCREW DRIVER 6"	STANDARD	A 66
1.9	ALLEN KEY 5 MM	STANDARD	-
1.10	ADJUSTABLE SPANNER	STANDARD	-
1.11	OIL CAN 0.5 LTS	STANDARD	CAPACITY -0.5 L
1.12	BOX SPANNER 17x19 WITH T BAR	STANDARD	SMT 17 & 19

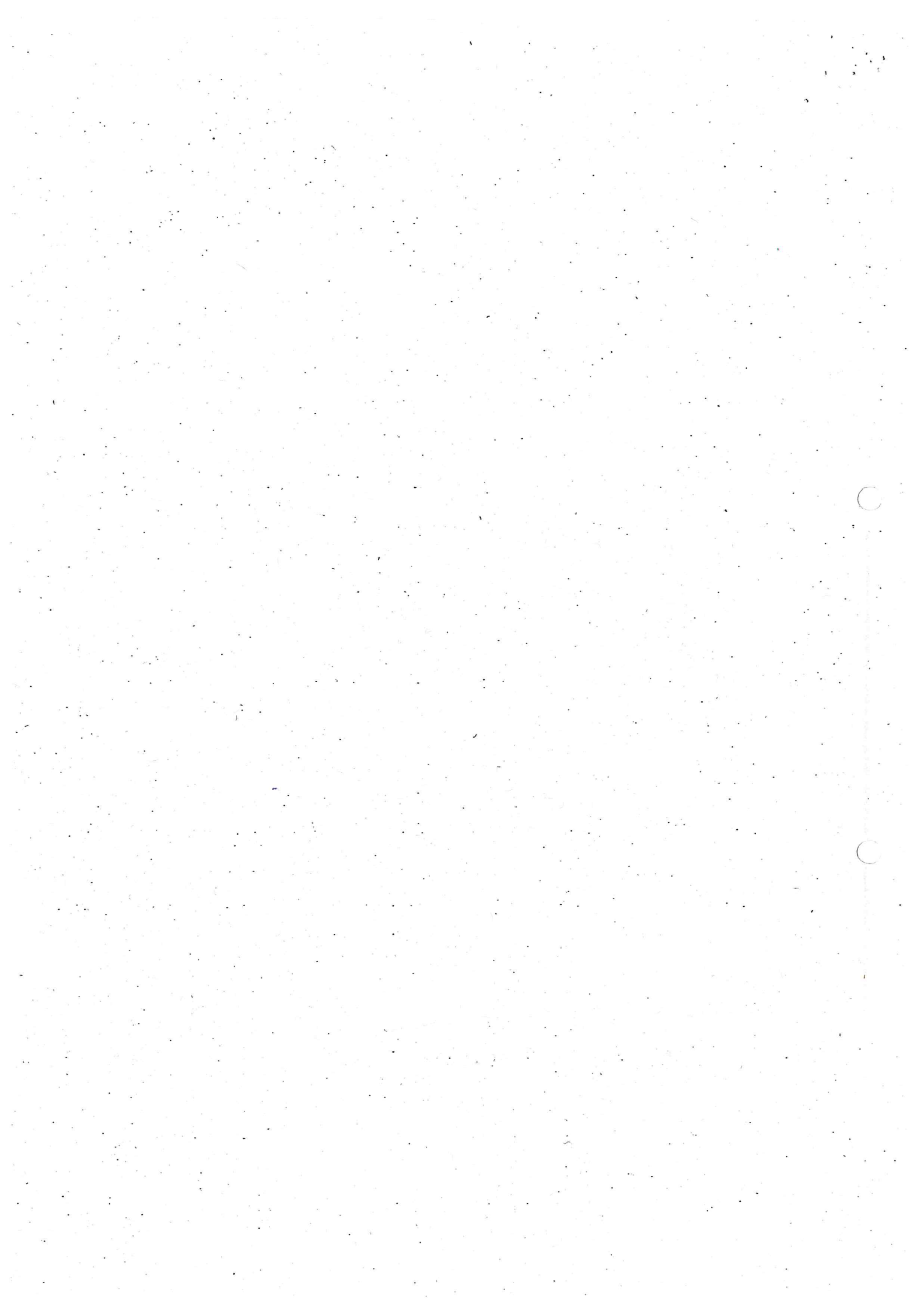
W. H. W. H.

For ATS ELGI LIMITED



R. J. J.
 Authorised Signatory

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 12/11/18




ATS ELGI
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To
 The Tender Committee
 MM. Department
 WCL, Nagpur.

The following are the list of Consumables & consumable spares for warranty period per equipment wise,

Any shortfall in quantity of these spares and any other spares over and above the list submitted with offer during the period of 12 months, will be supplied by us at free of cost.

S.No	Model	Description	Qty per Machine
1	Chassis TATA 1613/4200	Oil Filter	1
2	Chassis TATA 1613/4200	Diesel Filter	2
3	Chassis TATA 1613/4200	Stainer Filter	1
4	Chassis TATA 1613/4200	Washer	1
5	Diesel Engine Kirloskar	Oil Can	1
6	Diesel Engine Kirloskar	Secondary Element	1
7	ELGI Compressor	Tune up Kit	1
8	ELGI Compressor	Lube Oil (700ml)	1
9	Grease Pump	Grease Pump AH4/50 Tune up kit	1
10	Grease Pump	Hose Assy Grease 7.5Mtr	2
11	Grease Pump	Kit assy for Gun	1
12	Grease Pump	Grease pistol AH4/50 Tune up kit	1
13	Grease Pump	Cylinder Air Plating	1
14	Grease Pump	Z' Swivel Joint assy for Grease Pistol	1
15	Grease Pump	Oil Seal	1
16	Grease Pump	housing Valve Kit	1
17	Grease Pump	Rod Piston with Insert	1
18	Grease Pump	Cylinder ,Grinding,Lapping	1
19	Grease Pump	Cup Seal	1
20	Grease Pump	L Swivel Assy - AH4	1
21	Oil Pump, OTP	Hose Assy Oil 2.2 M 1/2" An2/20	6
22	Oil Pump, OTP & Water Pump	Piston Plating	4
23	Oil Pump, OTP & Water Pump	O' Ring	4
24	Oil Pump, OTP & Water Pump	Valve Pin	4
25	Oil Pump, OTP & Water Pump	Filter	4
26	Weld. Rectifier- ADOR Champ 500	MCB - Champ 500	1
27	Weld. Rectifier- ADOR Champ 500	WOT - Champ 500	1
28	Weld. Rectifier- ADOR Champ 500	Transformer	1
29	Weld. Rectifier- ADOR Champ 500	Glass Fuse 0.5A - Champ 500	1
30	Weld. Rectifier- ADOR Champ 500	Rocker Switch - Champ 500	1

W. H. H. H.



OF ATS ELGI LIMITED

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13/19/18
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