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REPORT ON MOBILE TRAINING UNITS FOR EIIDDC

INDUSTRIAL TRAINING ADVISORY SERVICES, TO THE
ENGINEERING AND INDUSTRIAL DESIGN AND DEVELOPMENT
CENTRE, CAIRO

Prepared by Anthony Parfitt, A/V Expert
UNIDO/UNDP/EGY/81/02/31.5A
December 1983
1. MOBILE TRAINING UNITS

Five options are described below. However, each manufacturer is very flexible and numerous variations can be supplied to the client's individual requirements.

These options are presented as possible examples as a basis for decision-making.

1. Mobile video unit kit

This is a box which can be placed in a Landrover, Ford Transit or similar vehicle, where it is ready for immediate viewing by outdoor audiences, or it can be carried indoors. It contains a specially tough video monitor, V.C.R. and independent power supply. Two variations are described.
Supplier: Argivisual. Cost version A (standard) £ 6,750
version B (automatic) £ 7,350

2. Mobile Training Unit

This is a specially fitted-out Landrover, or other vehicle, suitable for making a/v presentations to outdoor audiences. Generator is supplied for power requirements.
Supplier: Argivisual. £ 21,585

3. Mobile Training British Films Ltd. plus Video production Unit

This is also a specially fitted out vehicle suitable for making a/v presentations to outdoor audiences, plus full u-format video shooting, editing and telecine equipment. This version facilitates the use of video as a recorder of local conditions/craftsmen skills, and also to make training films "on the-spot" to local requirements. Power take-off unit for power requirements.
Supplier: British Films. Cost £ 27,950 with video equipment approx £ 17,450 without video equipment

4.a) Mobile classroom plus video production studio

This version is a 40' long trailer plus traction unit, fitted out as a 25 seater cinema and lecture unit, plus full video shooting, editing, playback & telecine facilities.
Supplier: British Films Ltd.
Price: £ 64,950 complete.

b) Mobile classroom

As above but without the video production facilities.
Price: £ 4,950
MOBILE VIDEO UNIT KIT
Mobile Video Unit Kit

This is a box of equipment which can be placed in a Landrover, or other similar vehicle, where it is ready for immediate viewing by outdoor audiences.

It contains a specially tough video monitor, V.C.R. and an independent power supply.

Supplier:— Agri Visual Ltd. 1 Rectory Road
Wokingham
Tel. (0734)790500 Berkshire
Telex 847507G U.K.

Notable advantages of this system:—

* Easily operated by unskilled operators.
* Secure against unauthorized users.
* Shock and vibration resistant.
* Self reliant power, independent of external source.
* Easy servicing with exchange circuit panels.
* Capable of quick fitting to wide range of vehicles.

Operating

There are two alternative systems:

a) Three Button Manual System:—

This system enables standard pre-recorded video cassettes to be shown in "bush" conditions while retaining the maximum security of equipment and being extremely simple to operate.

Operating sequence:

Button one — push for "start" — delays for monitor warm up, tape lacing and V.C.P. start; Second push gives still frame; Third push for play.

Button two — Audio cassette start with auto-de-select of video monitor and V.C.P.

Button three — System stop: Monitor off, V.C.P. rewind: audio off: power off: auto resets to start awaiting next command.

b) Auto System — single button

This system relieves the operator of all but one function — push start. The video system will then follow pre-recorded instructions.

All functions are sequenced by tones on the un-used audio track on the V.C.P.

The Programmer is supplied to give up to fifty-nine commands.
SECURITY

The controls, the V.C.P. and all electronics are accessible quickly but all access bolts are tamper proof or a key lock is fitted. The video cassette is accessible only to a key holder. The system is therefore safe in the hands of an unskilled operator.

The Monitors P.C.B. is mounted remotely on a sub-rack.

A National Panasonic 8170 or JVC 5300 playback only V.C.P. (both VHS) is mounted behind locked doors that contain the loud speaker (Most V.C.P. and V.C.R. can be accommodated)

SYSTEM RELIABILITY

Previously the major obstacle to the use of video equipment in mobiles has been the problem of shock and vibration.

Designed for Landrovers and all similar vehicles, this video system is intended for use in the roughest of conditions.

"Previously trials in Nigeria in conditions of 44°C... and high humidity on unmade dirt roads have shown very high system reliability" (Agin Visual)

The video equipment is robust. (The BARCO 26" Monitor has its T.V. tube mounted via rubber bushing direct to the light alloy inner cabinet.

In transit the complete system is suspension mounted.

Power

a) Supply

240 V, 500 watt square wave inverters from second storage battery. An uprated alternator for the vehicle is supplied with the Video kit. Battery and charging capacity has proved to be more than adequate for two hours viewing between charges and in normal usage no external power is required.

b) Safety

Should there ever be a potentially dangerous short circuit an E.L.C.B. (earth leakage circuit breaker) will tip and an alarm will sound. Whenever this system is running or when external power is connected, the vehicle is immobilised by a plug in module which isolates the starter solenoid.
FURTHER FACILITIES

L.E.D. indications for "low power", "changing" and "charged", "overheat", "rewinding".

Battery charger suitable for zero maintenance or conventional batteries.

Power changeover for internal or external mains, cycle time recorder.

TOOLS

All tools required for a normal workshop to fit the above units to existing vehicles are included in the price.

PRICE

STANDARD VERSION
£ 6,750.00 FOB U.K. Port

AUTOMATIC VERSION
£ 7,350.00 FOB U.K. Port

Delivery eight-ten weeks September '83
A new Mobile Video Unit developed by Agri-Visual of Wokingham.

- Video Presentation
- Public Address Kit and Audio Cassette Player
- Self-powered, independent of external source
- Shock and vibration resistant
- Tamper-proof design
- Fits wide range of vehicles
- Fully interlock controls via programmed tape of simple three button control
- High reliability in hot and rough tropical conditions
- Easy servicing with exchange circuit panels
- Capable of quick fitting to wide range of vehicles
- Easy to operate by unskilled operators and secure against unauthorised users.

THREE BUTTON MANUAL SYSTEM:

| BUTTON ONE | Push for "Start" - delays for monitor warm-up, tape lacing and VCP start. Second push gives still frame; third push for play. (V.C.P. = Video Control Panel) |
| BUTTON TWO | Audio Cassette start with auto de-select of Video Monitor and VCP. |
| BUTTON THREE | System stop: Monitor off, VCP rewind, audio off: power off (from inverter, generator and mains); auto resets to start awaiting next command. |

This system enables standard pre-recorded video cassettes to be shown in "bush" conditions while retaining the maximum security of equipment and being extremely simple to operate.

AUTO SYSTEM

SINGLE BUTTON "GO"

All functions sequenced by tones on unused audio track on VCP. Programmer is supplied to give up to fifty-nine commands.

The other elements in the electronics system are:

- LED indications for "low power", "charging" and "charged", "overheat", "rewinding"
- 40 watts audio amplifier on 9u Eurocard
- Battery charger suitable for zero maintenance or conventional batteries
- Power changeover for internal or external mains, cycle time recorder

For further information, specifications and prices contact:

Agri-Visual Limited, 1 Rectory Road, Wokingham, Berkshire, United Kingdom.
Tel: (0734) 730503 Telex: 847507G
2. MOBILE TRAINING UNITS

These are specially fitted vehicles (Landrover, Ford Transit van etc) which are suitable for audio-visual presentations to outside audiences.

Two alternatives are described. However, each supplier is completely flexible, and the enclosed versions are submitted as examples only.

1. British Films Ltd. M.T.U.

   Price: sterling £ 17,960

   This unit is the same as that described in Sector 3, but minus video equipment.

2. Agrivisual

   Price: £ 22,035
OUR REF: REL/CG/2048/83

Mrs. Shirley A. Parfitt ATD, FSIAD,
Barley Mow Workspace,
10, Barley Mow Passage,
London W4 4PH.

SPECIFICATION

UNIDO PROJECT – EGYPT

MOBILE CINEMA AND VIDEO UNIT

One Land Rover: Long wheel base station wagon, Series III
4 cylinder petrol engine
Less middle bench and rear seats

LEFT HAND DRIVE    COLOUR: BRONZE GREEN

Fitted with:

Driver and passenger seats
Centre Power take-off
Engine speed governor
Governor position stop
Accelerator retaining bracket
Oil cooler equipment
Oil temperature gauge
Oil pressure gauge
Water thermometer
Electrical suppression for engine
Laminated windscreen glass
750 x 16 tyre equipment
Windscreen washers
Light fitted under bonnet
Spare wheel and carrier mounted on de luxe bonnet with lock
- additional carrier on rear door
10 gallon (45 litre) additional fuel tank with change-over tap beneath driver's seat, change-over switch for fuel gauge in dash panel.
Giving a total capacity of 26 gallons (118 litres).

BRITISH FILMS LIMITED

Biograph House
251 Vauxhall Bridge Road
London SW1V 1EJ
Telephone 01-828 7965
Telex 947165
Corrugated alloy platform assembly fitted to roof of vehicles. Four rung steel ladder fitted to rear, to give access to roof platform. Loudspeaker mountings fore and aft of roof. Brackets for loudspeaker and screen mountings. Built-in loudspeaker sockets. Built-in cable drum for power supply. Equipment stowage cabinet with access from side doors. Stowage facilities for ancillary equipment. Self-contained power supply provided by self-regulating alternator belt driven from centre power take-off unit on engine, producing 3 KVA 230 volt 50 cycles AC. Electrical wiring in flexible conduit. Electrical control panel with frequency meter, volt meter and voltage control regulator.

**AUDIO-VISUAL EQUIPMENT**

**PROJECTION SYSTEM:**

1 Bell and Howell Model 2592 16mm projector with optical sound replay, built-in amplifier, speaker in side cover, with 51mm lens, matching unit and 1600ft spool. Power supply: Multi-voltage.

1 Zoom lens 35-65mm f1.6

1 High level demountable projector stand

1 Screen, matt white 8' x 6' (240cm x 180cm) for mounting on vehicle.

1 Screen mounting assembly

1 Indoor screen

**AUDIO SYSTEM:**

2 Re-entrant loudspeakers 30 watt output each

1 Omni-directional microphone with floor stand

**ANCILLARY ITEMS:**

1 16mm film rewinder

1 16mm film splicer

1 150 watt floodlight and stand

1 Mains distribution box

1 Set of cables for all systems
VIDEO SYSTEM:


1. JVC Model RM88U Microprocessor based electronic editing control unit. Variable speed, tape shuttle search control forward/reverse.

1. JVC Portable professional video camera Model KY1900E110. Auto beam control. Built-in genlock, EBU colour bar generator - fully portable comprising:

- KY1900E camera head
- H2 2100E 10:1 servo zoom lens
- VF 1900E 1.5" viewfinder
- AAC 19E AC Power adapter/charger
- DC-C 19E NIC cad battery pack
- VC 511/2 VTR cable whether (VTR 10 pin or 14 pin connector CB 1SG0V carrying case)

1. 16mm telecine attachment to HZ2100E - zoom lens

Kodak carousel SAV 2010 slide projector complete with carrying case 150mm & 250mm lens slide tray, remote control and one lamp.

Bell and Howell overhead projector Model 1702K. A4 format, lamp height adjuster lamp change mechanism, high quality (3.5, 317mm lens, 24V. 250 watt. A1/223 lamps - Complete with:

- Roll feed cassette
- Dust cover
- Cellofilm roll
- 3 acetate packs

1. Barco CS66 26" monitor

SPARES AND ACCESSORIES:

16mm projector

3. 1600ft spools
1. Integrated circuit for motor
1. Amplifier board
1. Main drive belt
6. Emm projector lamps
6. Exciter lamps
3. Sets of fuses
2. Gate brushes
1. Bottle of oil
19th October, 1983.

Alternator:
1 Pair matched drive belts
1 Set AC brushes

Vehicle:
1 Set of engine belts
1 Set of plugs
1 Set of contact breaker points
1 Oil filter

Miscellaneous:
2 Speaker diaphragms
1 Inspection lamp, 12 volt with lead
1 Fire extinguisher
2 Cords with hook fitted for raising screen
2 Sets of spare lamp bulbs for inspection, interior and floodlight
1 Soldering iron
1 Reel of solder

Tools:
1 Set of Landrover vehicle tools
1 Set Allen keys
1 Pair pliers
1 Set 3A spanners
1 Pair side cutters

Manuals:
1 Filmobile set of operating instructions
1 Landrover vehicle manual
1 Bell and Howell service manual
1 Set of AV equipment instruction manuals
1 JVC equipment manuals
FILMOBILE BASED ON A TOYOTA HI-LUX 4WD

STORAGE CUPBOARD FOR FILMS, SPARES & REWINDER & SPlicer

PROJECTOR STAND LOUD SPEAKER

ROOF ACCESS LADDER

SCREEN STANDS

INTERIOR VIEW FROM REAR

SPEAKERS FIXED FOR PUBLIC ADDRESS

DRAWING No 0188
British Films Limited have been producing mobile audiovisual units for over 50 years. The products and services available from the company today are the finest of their type in the world, and they represent a combination of the company's experience and expertise coupled with the use of the most reliable and advanced equipment obtainable.

In 1928, British Films manufactured mobile cinemas which were used by political parties and government departments for giving information to the man in the street. Today, British Films vehicles, built to travel over rugged terrain and to operate in all climatic conditions, can be found in over 90 countries.

In addition to the dependable Filmobile, British Films produce other purpose-equipped vehicles to customers' requirements. The company offers a complete design and consultancy service covering the whole spectrum of audiovisual activities. This service includes scripting and producing documentary films and audiovisual programmes; and British Films' producers have won top international awards for their documentaries.

Fifty years experience
Medical equipment specification is dependent upon particular applications. Specifications currently available are:

- Mobile Medical Examination Clinic and Dispensary
- Mobile Mother and Child Health Clinic
- Mobile Emergency First Aid Clinic
- Mobile Dental Clinic
- Mobile Farm Planning Clinic
- Mobile Immunisation Unit

We shall be pleased to discuss alternative specifications for the basic unit for other requirements.

This unique concept of tentage, permanently affixed to the left side and rear of the Land Rover allows for rapid assembly of a large enclosed working area. Tests have shown that the complete tentage system can be assembled by one man and be ready for operational use within thirty minutes of the vehicle arriving on site.

After use the system dismantles and packs away into the roof mounted storage boxes with the same ease and speed.

The inner cover is manufactured from a top quality 12 oz. canvas, completely water and dirt proofing the "Birkmyra" process which has been successfully applied and proven in use around the world in both civilian and military applications for more than eighty years.

The basic standard specification which applies to all variations is as follows:

**Land Rover**

The roof is fitted with a Solar Heat Shield and tent storage boxes built into each side running the complete length of the vehicle.

- Metric Instrumentation, International lighting specification. Optional left or right hand drive.
- Additional fuel tank with change over control giving a total fuel capacity of 118 litres (26 gallons) in series. Local fuel filter.
- Heavy duty shock absorbers fitted at rear with driver springs all round. Steering damper.
- A 4-cylinder petrol or diesel engine with heavy duty alternator, split charge facility and extra engine cooling, laminated windscreen.
- Five wheels and tyres (including one spare) dual purpose off road size 750 x 16. Spare wheel mounted onto deluxe dished bonnet.
- Long wheel base (109 inch) fitted with a vertically hinged safari door with a rear window and folding access step.

Effective average range is:

- 4-cylinder petrol engine: 624 kilometres (390 miles)
- 4-cylinder diesel engine: 582 kilometres (364 miles)
Standard Equipment

Electrical System

Auxiliary Battery
12 volts, charged from the vehicle's sp charge facility, for operation of the refrigerator when the vehicle is in an emergency vehicle interior back-up and generator's electric start.

Generating Set
4 KVA, 220 volt 50 Hz s/pbase, petrol driven, with electric start. MOUNTED IN REAR OF THE LAND ROVER WHILST IN TRANSIT, the clinic has arrived on site, the generator is demounted from the vehicle.

Lighting
Electric lights with supply leads for mobile interior back-up and generator's electric start.

Generating Set
♦ KVA, 220 volt 50 Hz s/pbase. petrol driven, with electric start. MOUNTED IN REAR OF THE LAND ROVER whilst in transit, the clinic has arrived on site, the generator is demounted from the vehicle.

Air Conditioning
A single unit of 6,500 BTU cold only, protruding through the tent end wall, upon a substantial metal stand.

Refrigerator
With top opening lid 12-volt, 220 volt, or gas or 12 volts DC, warming light when operating on 12 volts. Capacity 34 liters (1.4 cubic feet).

Storage and Equipment
Cabinetry is fitted into the Land Rover to provide the maximum amount of stowage for equipments. The amount of cabinetry fitted is dependent upon the ultimate equipment specification.

Two Gas Bottles
Mounted in a carrying frame.

Table
Stabilised with clips to side of vehicle tent interior (except for Mobile Dental where table is free standing).

Stowage Bag for Table
( examination couch where supplied).

Double Ring Gas Stove
Portable.

Two Folding Chairs

Three Portable Fold-up Camp Beds

Two Water Containers with Fitted Tops

Two simple Disposable Water Purification Units
(8,000 litres each).

One Secretarial Bowl

Fire Extinguisher
Dry powder
Optional References

Please quote these references when requesting quotations and clinic specifications.

P1 Land Rover
109 inch wheelbase with 4-cylinder petrol engine.
Standard unit with 6,500 BTU air conditioning. (Cold only).

P2 Land Rover
109 inch wheelbase with 4-cylinder petrol engine.
Complete with air circulatory fans and infra-red heaters for use in temperate climates.

P3 Land Rover
109 inch wheelbase with 4-cylinder diesel engine.
Standard unit with 6,500 BTU air conditioning. (Cold only).

P4 Land Rover
109 inch wheelbase with 4-cylinder diesel engine.
Complete with air circulatory fans and infra-red heaters for use in temperate climates.

Optional Specification

The details overleaf describe the standard basic unit. An alternative for use in temperate climates is available without the air conditioning unit, but supplied with:

TWO - 220-volt air circulatory fans.
TWO - Infra-red heaters 1kW each.
The Agri-Visual Mobile Training Unit is specifically designed for modern mass communications using the latest Audio-Visual, Exhibition and Demonstration techniques. It is ideal for Education, Agricultural Development Programmes and Sales Promotion where the potential audiences are numerous and widely spread.

Within minutes of arrival the MTU can project a film during the day or night. On the move or stationary, programme information and pre-recorded messages or slogans can be broadcast using the Versatile Public Address system.

Field Demonstrations: Training, promotion and demonstration can be given to a large audience with the PA system.

Audio: Extensive Audio Facilities enable Programmes to be played and Speeches to be made. The System allows Programmes to be interrupted by the Presenter to add his own material.

Visual: 16mm film, tape/slide and illustrated lectures can be given by day or night.

Exhibitions: Display boards are inclusive and there is space for Exhibition materials and models.

The Agri-Visual Mobile Training Unit projects films to large audiences by day or night and the public address system can broadcast information with the vehicle in motion.

Information: National and International Rural News Agricultural Shows and Exhibitions Social, Political etc., Information Trade Fairs.

Agriculture: Farmer Training Staff Training Farmer Information Promotion of New Technology

Education: Rural Education Programmes Mobile School/Lecture Platform Mass Education Literacy Campaign

Health: Public Health Programmes Mass Information on Vaccination

For further information, specifications and prices contact:

Agri-Visual Limited, 1 Rectory Road, Wokingham, Berkshire, United Kingdom. Tel: (0734) 790500 Telex: 847507G
MOBILE TRAINING UNIT

Specification and Prices

The latest edition of the AGRI-VISUAL Mobile Training Unit is based on the new LAND ROVER 110 Series.

Vehicle specification is as follows:

CHASSIS a development of the world-renowned RANGE ROVER, with long travel coil springs all round, lighter and improved steering.

ENGINE either 2½ litre petrol or diesel 4-cylinder, or 3½ litre V8 petrol, all with five bearing crankshafts.

TRANSMISSION FIVE speed gearboxes on all 4-cylinder models, and all with a completely new transfer box. Permanent 4-wheel drive and centre-differential lock.

BODYWORK redesigned interior and exterior and controls.

BRAKES Servo-assisted disc brakes at front with dual circuit.

All in all, greater flexibility through the gears, improved fuel economy, smoother and quieter cruising, better handling and control.

Optional extras - include self-levelling suspension, power-assisted steering, air-conditioning.

Our basic, standard specification for the well-proven AGRI-VISUAL Mobile Training Unit is just as exciting.

Internally - BELL & HOWELL MAGNETIC & OPTICAL sound projector to professional standard, complete with operating kit of spare lamps, belts and toolkit. Top quality 40 watt amplifier controlling the front compartment microphone and cassette player and feeding three 15 watt roof horn speakers mounted on a special rack. All the equipment is housed in a craftsman-made laminated security cabinet, skinned with tough aluminium alloy and housing a specially designed generator to supply all the electrical power requirements.

Included, as a study of the equipment inventory will reveal, is a full-size lightweight folding screen of a size 8' x 6' (244 x 183cm) based on a 1" square-section aluminium alloy tube, packed in a stout travelling case.
The Mobile Training Unit is supplied with everything that is required to run and maintain the unit with the minimum of effort and downtime.

The standard specification is as follows:

**DRIVING COMPARTMENT:**

12 Volt Cassette Player  
Hand Microphone

**MAIN COMPARTMENT:**

Specially designed security cabinet with two locks. Bell and Howell 16 mm magnetic/optical sound projector (complete with standard lens, four spare projector lamps, two spare exciter lamps, spare belts, fuses, speed control unit). Instruction book and parts manual for above.

Mains lead and extension leads for mains and amplifier leads. Projector stand (for external use if needed). Set of empty spools (three).

Complete film rewind and repair kit, comprising rewinder board with rewind arms (one geared), splicer and tape splices, lens cloth, aerosol and refilling pump for dusting.

Security screen and partition at rear of driving compartment, complete with roller shade blind.

*40 watt amplifier.

*Three - 15 watt roof horn speakers on special mount.

*One stand microphone and lead, with tripod folding stand.

One generator 1.8 KVA (petrol driven).

Spare spark plugs, gaskets, starter spring and cord etc., as necessary for 200 hours operation.

Five litres oil, one - 20-litre steel fuel container.

One funnel.

One plug spanner.

One general toolkit - two pliers, three screwdrivers, test meter soldering iron and solder.

One cable-drum with 20m heavy duty cable and duraplug, twelve cable pegs.

One cable-drum to control unit.

One - 12 volt clip-lamp with special three pin plug and fitted mating socket.

One - 240 volt clip-lamp. Both above with adequate supply of spare bulbs.

*One lightweight folding screen 8' x 6' in special case with guys, pegs, etc.

Two display pinboards with supply of pins.

One fire extinguisher (mounted).
OPTIONAL ADDITIONS AT EXTRA COST

A  REAR-PROJECTION EQUIPMENT consisting of:

* Special reversing lens
* Rear-projection roller screen 3' x 2' fitted to rear upper hatch of Land Rover.
* Rear-projection surface for folding 8' x 6' screen.
* Shade awning for rear of vehicle complete with extending poles, guys, pegs and bag, for daytime viewing.

B  SLIDE PROJECTOR

with or without cassette recorder/player, linked to control.

Comprehensive instructions to set up, operate and maintain equipment are detailed in the instruction manual supplied with each unit.

Short courses of instruction may be arranged on site if required.

PRICES:

Basic inventory all fitted into MK III 109" Land Rover with tropical roof (4 cylinder petrol)

FOB UK PORT £19,250.00

Basic inventory all fitted into the latest Land Rover 110 with tropical roof (4 cylinder petrol)

FOB UK PORT £19,750.00

AVAILABLE EXTRAS

Air conditioning for vehicle £750.00
Power steering £320.00
Rear projection kit (as listed) £765.00
Slide projector (only) £450.00
Slide projector and controlling cassette recorder/player PDA

Delivery eight - ten weeks subject to vehicle availability.

These prices are correct at going to press September 1983
The Agrivisual Mobile Training Unit projects films to large audiences by day or night and the public address system can broadcast information with the vehicle in motion.

The Agrivisual Mobile Training Unit has been used successfully for Mass Education, Farmer Training, Rural Health Campaigns and General Promotion. It is the most versatile Training Unit available.
The Agrivisual Mobile Training Unit is specifically designed for modern mass communications using the latest Audio, Visual, Exhibition and Demonstration techniques. It is ideal for Education, Agricultural Development Programmes and Sales Promotion where the potential audiences are numerous and widely spread.

Within minutes of arrival, the MTU can project a film during the day or night. On the move or stationary, programme information and pre-recorded messages or slogans can be broadcast using the Versatile Public Address system.

All equipment remains fixed for both Front and Rear Projection, only the generator is moved from the vehicle. The Rear Projection screen is shaded by an easily erected awning. The all-weather speakers are roof-mounted. Exhibition Panels are incorporated for displaying flipcharts, photographs, posters and other support information for Demonstrations.

MTU Operators are trained by our experienced Staff under field conditions to ensure they receive practical instruction in maintenance and operation.

Where there is a need to Inform, Promote, Teach, Educate and Motivate, the Agrivisual Mobile Training Unit provides a highly efficient and versatile communications system.

EFFECTIVE COMMUNICATIONS

Field Demonstrations: Training, promotion and demonstration can be given to a large audience with the PA system.

Audio: Extensive Audio Facilities enable Programmes to be played and Speeches to be made. The System allows Programmes to be interrupted by the Presenter to add his own material.

Visual: 16mm film, tape/slide and illustrated lectures can be given by day or night.

Exhibitions: Display boards are inclusive and there is space for Exhibition materials and models.

MOBILE COMMUNICATIONS

Information: National and International Rural News Agricultural Shows and Exhibitions Social, Political etc. Information Trade Fairs

Agriculture: Farmer Training Staff Training Farmer Information Promotion of New Technology

Education: Rural Education Programmes Mobile School/Lecture Platform Mass Education Literacy Campaign

Health: Public Health Programmes Mass Information on Inoculation

AGRIVISUAL LTD., 1 Rectory Road, Wokingham, Berkshire, UK. Tel. (0734) 790500 Telex 847507 G
POWER TAKE-OFF
for a work horse

An important part of Land Rover's versatility is the flexibility of its PTO facility which provides a static or mobile power source. The power is available at three basic positions on the vehicle where a coupling can be made to the engine power.

The transfer gear drive unit consists of a centre and bottom PTO which can be obtained as optional equipment. They form the basic drive for three variations of PTO. Centre PTO - where power can be transmitted to machinery mounted in place of the passenger seats, below the rear body floor or within the rear body section. Rear PTO - from where machinery mounted on the rear of the vehicle or on a trailer (or on any remote mounting) can be powered. A trailer powered in this way will cross the most arduous terrain. Bottom PTO - this is an auxiliary gearbox attached at the base of the transfer gearbox to which you can add the same drive units used at the centre PTO. When the centre PTO is used for other purposes a hydraulic winch can be powered from the bottom PTO.

A selected range of equipment can also be driven directly from the engine crankshaft. The PTO units are easy to fit and can be supplied with the vehicle in mechanical, belt or hydraulic drive versions. Other optional equipment you may find useful to use with PTO equipment is a hand throttle, engine governor, oil cooler, engine speed counters and hour meters.

The PTO capability was part of Land Rover design from its
Winches are very important for a large number of jobs such as construction, or cable laying and all types of vehicle and equipment recovery. Land Rover have a wide range of winches in mechanical, electrical and hydraulic form to cater for all your requirements. Your Land Rover Dealer will recommend the most suitable winch for your vehicle and your specific needs. The basic types are:

- **Capstan** - mechanical, driven from the engine crankshaft.
- **Detachable** - hydraulic, driven from the centre or bottom PTO.
- **Drum** - electric, driven from the vehicle's battery.

Land Rover is more than a supremely practical means of transport, it is an extremely hard-working and highly mobile power source for all applications.
The new Land Rover One Ten Price List UK Effective 8 March 1983

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<td>9390.90</td>
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**OPTION PACKS**

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<td>A</td>
<td>One Ten S/Top</td>
<td>270.00</td>
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<td>310.50</td>
<td>One Ten H/Top</td>
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<td>3 County Cloth Seats Head Restraints (2 x Front Outer)</td>
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<td></td>
<td>Full Interior Cab Trim</td>
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<td>B</td>
<td>One Ten H/Top &amp; S/Top</td>
<td>169.00</td>
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<td>194.35</td>
<td>3 County Seats Head Restraints (2 x Front Outer)</td>
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<td>C</td>
<td>One Ten SW</td>
<td>283.00</td>
<td>42.45</td>
<td>325.45</td>
<td>(Station Wagon) 12 County Seats Head Restraints (2 x Front Outer)</td>
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<td>D</td>
<td>One Ten PU &amp; HCPU</td>
<td>305.00</td>
<td>-5.75</td>
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<td>3 County Seats Full Interior Cab Trim</td>
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<td>3 Deluxe Vinyl Seats Full Interior Cab Trim</td>
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**PROTECTION PACKS**

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<td>A</td>
<td>3 (Ex County SW) All One Ten</td>
<td>30.00</td>
<td>4.50</td>
<td>34.50</td>
<td>Fire Extinguisher Bonnet Lock Fuel Filler Lock Facility</td>
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<td>3 (Ex County SW) All One Ten</td>
<td>60.00</td>
<td>9.00</td>
<td>69.00</td>
<td>Fire Extinguisher Bonnet Lock Fuel Filler Lock Facility Radiator Chauff Guard Front &amp; Rear Lamp Guards</td>
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<tr>
<td>C</td>
<td>All One Ten</td>
<td>25.00</td>
<td>3.75</td>
<td>28.75</td>
<td>Front Mud Flaps, Bonnet Lock Fuel Filler Lock Facility</td>
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**TOWING PACKS**

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<td>A</td>
<td>All One Ten</td>
<td>60.00</td>
<td>9.00</td>
<td>69.00</td>
<td>Towing plate, Front Towing Rings, 50mm Ball or Jaw</td>
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<td>7 pin Trailer Electrics (Please specify)</td>
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<td>25.00</td>
<td>3.75</td>
<td>28.75</td>
<td>Towing plate, Front Towing Rings, 50mm Ball or Jaw (Please specify)</td>
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<td>C</td>
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<td>7.50</td>
<td>57.50</td>
<td>Towing plate, Front Towing Rings, 7 Pin Trailer Electrics</td>
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**AUXILIARY CHARGING PACK**

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<tr>
<td>All One Ten</td>
<td>111.00</td>
<td>16.65</td>
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<td>Heavy Duty Electrical Pack</td>
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<td></td>
<td>25 ACR 65A Alternator Split Charge Facility Voltmeter</td>
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<td>14</td>
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<td>18 ACR 45A Alternator Heavy Duty Battery Voltmeter</td>
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**HEAVY DUTY ELECTRICAL PACK**

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<td>3</td>
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<td>30.00</td>
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<td>Quartz Clock, Voltmeter, Side Repeater Flashers, Quartz Halogen Headlamp</td>
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<td>4</td>
<td>All One Ten</td>
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<td>4.50</td>
<td>34.50</td>
<td>Selectable 2/4 Wheel Drive, Free Wheeling Front Hubs</td>
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**TRANSMISSION PACK**

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<tr>
<td>2 1/4 litre Models</td>
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<td>2 1/4 litre Models</td>
<td>200.00</td>
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</table>
WORLD-WIDE
AUDIO VISUAL
COMMUNICATIONS

BRITISH FILMS LIMITED
British Films Limited have been producing mobile audio visual units for over 50 years. The products and services available from the company today are the finest of their type in the world, and they represent a combination of the company's experience and expertise coupled with the use of the most reliable and advanced equipment obtainable.

In 1928, British Films manufactured mobile cinemas which were used by political parties and government departments for giving information to the man in the street. Today, British Films vehicles, built to travel over rugged terrain and to operate in all climatic conditions, can be found in over 90 countries.

In addition to the dependable Filmobile, British Films produce other purpose-equipped vehicles to customers' requirements. The company offers a complete design and consultancy service covering the whole spectrum of audiovisual activities. This service includes scripting and producing documentary films and audiovisual programmes; and British Films' producers have won top international awards for their documentaries.
British Films are distributors of many of the world's leading makes of film, video and audio-visual equipment.

Because of the company's expertise, advice is available to help customers decide on the most suitable type of equipment for their requirements.

One of the British Films facilities most appreciated by overseas clients is their rapid service for the supply of accessories and spare parts.

After 50 years, British Films are still among the leading documentary film producers, with more than 60 national and international awards to their credit. Sponsors include the international agencies, government departments of several countries, the Armed Services, education, science and industry.

The film units attached to ministries of information and broadcasting, health, agriculture etc of many countries rely on British Film production services for negative processing, editing, sound-tracking etc, while training facilities for their film technicians can be arranged both in the UK and overseas.

With 50 years experience behind them, British Films can offer their customers advice and expert assistance on any aspect of audio-visual communication from the selection of the medium to the treatment of the story, through all stages of production in film, slide-tape or video, to completion and subsequent presentation.

British Films is a world-wide consultancy service covering every facet of visual and audio communication.
3.

MOBILE TRAINING UNITS PLUS VIDEO PRODUCTION UNIT

This is a specially fitted-out vehicle (Landrover or other make) similar to option no 2, with the addition of 16mm film rewinder and splicer, floodlight and a full suite of high quality U-format video equipment for shooting, editing and telecine recording.

This option provides two functions:

1. As a mobile a/v presentation unit; and
2. As a mobile video unit, which facilitates
   a) Video recording of local conditions.
   b) Recording & playback of trainees performance.
   c) On-the-spot production of training films to local requirements.

Power is provided by a power take-off unit.

Supplier: British Films Ltd.

Cost: £ 27,950 with high quality full video equipment,

(approx £17,950 without high quality full video equipment)
SPECIFICATION

UNIDO PROJECT - EGYPT

MOBILE CINEMA AND VIDEO UNIT

One Land Rover: Long wheel base station wagon, Series III
4 cylinder petrol engine
Less middle bench and rear seats

LEFT HAND DRIVE  COLOUR: BRONZE GREEN

Fitted with:

Driver and passenger seats
Centre Power take-off
Engine speed governor
Governor position stop
Accelerator retaining bracket
Oil cooler equipment
Oil temperature gauge
Oil pressure gauge
Water thermometer
Electrical suppression for engine
Laminated windscreen glass
750 x 16 tyre equipment
Windscreen washers
Light fitted under bonnet
Spare wheel and carrier mounted on
de luxe bonnet with lock
- additional carrier on rear door
10 gallon (45 litre) additional fuel
tank with change-over tap beneath
driver's seat, change-over switch
for fuel gauge in dash panel.
Giving a total capacity of 26 gallons
(118 litres).

.../...
CORRUGATED ALLOY PLATFORM ASSEMBLY FITTED TO ROOF OF VEHICLES.
FOUR RUNG STEEL LADDER FITTED TO REAR, TO GIVE ACCESS TO ROOF
PLATFORM.
LOUDSPEAKER MOUNTINGS FORE AND AFT OF ROOF.
BRACKETS FOR LOUDSPEAKER AND SCREEN MOUNTINGS.

BUILT-IN LOUDSPEAKER SOCKETS.
BUILT-IN CABLE DRUM FOR POWER SUPPLY.
EQUIPMENT STOWAGE CABINET WITH ACCESS FROM SIDE DOORS.
STOWAGE FACILITIES FOR ANCILLARY EQUIPMENT.

SELF-CONTAINED POWER SUPPLY PROVIDED BY SELF-REGULATING ALTERNATOR
BELT DRIVEN FROM CENTRE POWER TAKE-OFF UNIT ON ENGINE, PRODUCING
3 KVA 230 VOLT 50 CYCLES AC.
ELECTRICAL WIRING IN FLEXIBLE CONDUIT.
ELECTRICAL CONTROL PANEL WITH FREQUENCY METER, VOLT METER AND
VOLTAGE CONTROL REGULATOR.

AUDIO-VISUAL EQUIPMENT

PROJECTION SYSTEM:
1 Bell and Howell Model 2592 16mm projector with
  optical sound replay, built-in amplifier, speaker in
  side cover, with 51mm lens, matching unit and 1600ft
  spool. Power supply: Multi-voltage.
1 Zoom lens 35-65mm f1.6
1 High level demountable projector stand
1 Screen, matt white 8' x 6' (240cm x 180cm) for mounting
  on vehicle.
1 Screen mounting assembly
1 Indoor screen

AUDIO SYSTEM:
2 Re-entrant loudspeakers 30 watt output each
1 Omni-directional microphone with floor stand

ANCILLARY ITEMS:
1 16mm film rewinder
1 16mm film splicer
1 150 watt floodlight and stand
1 Mains distribution box
1 Set of cables for all systems
VIDEO SYSTEM:


1 JVC Model RM88U Microprocessor based electronic editing control unit. Variable speed, tape shuttle search control forward/reverse.

1 JVC Portable professional video camera Model KY1900E110. Auto beam control. Built-in genlock, EBU colour bar generator - fully portable comprising:-

KY1900E camera head
H2 2100E 10:1 servo zoom lens
VF 1900E 1.5" viewfinder
AAC 19E AC Power adapter/charger
DC-C 19E NIC cad battery pack
VC 511/2 VTR cable whether (VTR 10 pin or 14 pin connector CB 1900V carrying case)

1 16mm telecine attachment to HZ2100E - zoom lens

Kodak carousel SAV 2010 slide projector complete with carrying case 150mm & 250mm lens slide tray, remote control and one lamp.

Bell and Howell overhead projector Model 1702K. A4 format, lamp height adjuster lamp change mechanism, high quality (3.5, 317mm lens, 24V. 250 watt. A1/223 lamps - Complete with:

Roll feed cassette
Dust cover
Cellofilm roll
3 acetate packs

1 Barco CS66 26" monitor

SPARES AND ACCESSORIES:

16mm projector

3 1600ft pools
1 Integrated circuit for motor
1 Amplifier board
1 Main drive belt
6 Emm projector lamps
6 Exciter lamps
3 Sets of fuses
2 Gate brushes
1 Bottle of oil
Alternator:
1 Pair matched drive belts
1 Set AC brushes

Vehicle:
1 Set of engine belts
1 Set of plugs
1 Set of contact breaker points
1 Oil filter

Miscellaneous:
2 Speaker diaphragms
1 Inspection lamp, 12 volt with lead
1 Fire extinguisher
2 Cords with hook fitted for raising screen
2 Sets of spare lamp bulbs for inspection, interior and floodlight
1 Soldering iron
1 Reel of solder

Tools:
1 Set of Landrover vehicle tools
1 Set Allen keys
1 Pair pliers
1 Set BA spanners
1 Pair side cutters

Manuals:
1 Filmobile set of operating instructions
1 Landrover vehicle manual
1 Bell and Howell service manual
1 Set of AV equipment instruction manuals
1 JVC equipment manuals

PRICE FOR ONE MOBILE CINEMA AND VIDEO UNIT IN ACCORDANCE WITH THIS SPECIFICATION:

F.O.B. U.K. PORT  STERLING POUNDS  £ 27,950.00

VALIDITY:  OF THIS OFFER IS 60 DAYS

DELIVERY:  APPROXIMATELY 12 WEEKS FROM RECEIPT OF LETTER OF CREDIT.

PAYMENT:  BY AN IRREVOCABLE LETTER OF CREDIT VALID FOR A PERIOD OF 26 WEEKS DRAWN ON AND CONFIRMED BY A LONDON BANK, CONFIRMING FEE AT YOUR CHARGE, REQUIRING PAYMENT AGAINST PRESENTATION OF SHIPPING DOCUMENTS AND ALLOWING FOR PART PAYMENT AGAINST PART SHIPMENT AND ALLOWING IF NECESSARY TRANS shipment

OR

UNITED NATION AGENCY STANDARD TERMS.

R.E. LANGMAN
DIRECTOR
FILMOBILE BASED ON A TOYOTA HI-LUX 4WD

PROJECTOR STAND LOUD SPEAKER

CABINET WITH SLIDING DOORS

STORAGE CUPBOARD FOR FILMS, SPARES & REWINDER & SPlicer

SCREEN STANDS

ROOF ACCESS LADDER

SPEAKERS FIXED FOR PUBLIC ADDRESS

INTERIOR VIEW FROM REAR

DRAWING No 0188
4. a) MOBILE CLASSROOM + VIDEO PRODUCTION
   b) MOBILE CLASSROOM / WORKSHOP
4. (a)

MOBILE CLASSROOM PLUS VIDEO PRODUCTION UNIT

a) This version is a 25-seater cinema and lecture unit, plus video production facilities, in a 40 foot long trailer with traction unit. This specification may be varied; e.g.

b) As a mobile classroom only, excluding the video equipment.

c) As a 40 foot trailer fitted as a classroom, but excluding the traction unit.

d) The trailer can also be fitted out as a workshop.

Supplier: British Films Ltd.
Biograph House, 251 Vauxhall Bridge Road,
London SW1V 1EJ
Telephone: 01-828 7965
Telex: 947165

Price:
 a) Complete Mobile Classroom plus video equipment £64,950

4 (b)

MOBILE CLASSROOM/WORKSHOPS

As above, but without video equipment.
Price £54,950 approx.

This trailer with or without traction unit can also be fitted out as a mobile workshop to client's specifications.
Our ref: REL/CG/2049/83

21st October, 1983.

Mrs. Shirley A. Parfitt ATD, FSIAD,
Barley Mow Workspace,
1u, Barley Mow Passage,
London, W4 4PH.

SPECIFICATION

UNIDO PROJECT - EGYPT

MOBILE TRAILER CLASSROOM
LECTURE, CINEMA & VIDEO UNIT

On Bedford Tractor Unit Model TL1630
As per manufacturer's specification

LEFT HAND DRIVE

Complete with swan neck trailer 40' long fitted all aluminium body
with main lockable entrance door and one emergency door.

Air-conditioner - 9,000 btu.

Petrol electric generator 6 KVA in separate compartment.

Front 8 feet of floor raised 1 foot for lecturer and supply of table.

25 seat capacity for students together with flap type tables for
writing notes.

Rear of body to have storage compartment for equipment and projection
platform for 16mm and slide projector.

Supply of 4 foot screen over generator compartment complete with two
wall mounted loud speakers.

AUDIO-VISUAL EQUIPMENT

PROJECTION SYSTEM:

1 Bell and Howell Model 2592 16mm projector with optical sound
replay, built-in amplifier, speaker in side cover, with 51mm
lens, matching unit and 1600ft spool. Power supply:
Multi-voltage.

..../
PROJECTION SYSTEM Cont.
1 Zoom lens 35-65mm f1.6
1 High level demountable projector stand
1 Screen, matt white 8' x 6' (240cm x 180cm) for mounting on vehicle
1 Screen mounting assembly
1 Indoor screen

AUDIO SYSTEM:
2 Re-entrant loudspeakers 30 watt output each
1 Omni-directional microphone with floor stand

ANCILLARY ITEMS:
1 16mm film rewinder
1 16mm film splicer
1 150 watt floodlight and stand
1 Mains distribution box
1 Set of cables for all systems

VIDEO SYSTEM:
1 JVC Model RM88U Microprocessor based electronic editing control unit. Variable speed, tape shuttle search control forward/reverse.
1 JVC portable professional video camera Model KY1900E110. Auto beam control. Built-in genlock, EBU colour bar generator - fully portable comprising:-
   KY1900E camera head
   H2 2100E 10:1 servo zoom lens
   VF 1900E 1.5" viewfinder
   AAC 19E AC power adapter/charger
   DC-C 19E NIC cad battery pack
   VC 511/2 VTR cable whether (VTR 10 pin or 14 pin connector
   CB 1900V carrying case
1 16mm telecine attachment to HZ2100E - zoom lens
Kodak carousel SAV 2010 slide projector complete with carrying case 150mm & 250mm lens slide tray, remote control and one lamp.
Bell and Howell overhead projector Model 1702K.

A4 format, lamp height adjuster lamp change mechanism, high quality
(3.5, 317mm lens, 24V. 250 watt).

A1/223 lamps - complete with:

- Roll feed cassette
- Dust cover
- Cellofilm roll
- 3 Acetate packs

1 Barco CS66 26" monitor

SPARES AND ACCESSORIES:

**16mm projector**

- 3 1600ft spools
- 1 Integrated circuit for motor
- 1 Amplifier board
- 1 Main drive belt
- 6 Emm projector lamps
- 6 Exciter lamps
- 3 Sets of fuses
- 2 Gate brushes
- 1 Bottle of oil

**Vehicle:**

- 1 Set of engine belts
- 1 Set of plugs
- 1 Set of contact breaker points
- 1 Oil filter

**Miscellaneous:**

- 2 Speaker diaphragms
- 1 Inspection lamp, 12 volt with lead
- 1 Fire extinguisher
- 2 Cords with hook fitted for raising screen
- 2 Sets of spare lamp bulbs for inspection, interior and floodlight
- 1 Soldering iron
- 1 Reel of solder

**Tools:**

- 1 Set of Bedford vehicle tools
- 1 Set Allen keys
- 1 Pair pliers
- 1 Set BA spanners
- 1 Pair side cutters
Manuals:
1 Bedford vehicle manual
1 Bell and Howell service manual
1 Set of AV equipment instruction manuals
1 JVC equipment manuals

PRICE FOR ONE COMPLETE MOBILE TRAILER CLASSROOM IN ACCORDANCE WITH THIS SPECIFICATION:

FOB UK PORT STERLING POUNDS £64,950

VALIDITY: THIS OFFER REMAINS VALID FOR 60 DAYS.

DELIVERY: APPROXIMATELY 26 WEEKS FROM RECEIPT OF OFFICIAL ORDER AND LETTER OF CREDIT.

PAYMENT TERMS: BY AN IRREVOCABLE LETTER OF CREDIT VALID FOR A PERIOD OF 32 WEEKS DRAWN ON AND CONFIRMED BY A LONDON BANK. CONFIRMING FEE AT YOUR CHARGE REQUIRING DOWN PAYMENT OF 50% WITH ORDER AND BALANCE AGAINST PRESENTATION OF SHIPPING DOCUMENTS AND ALLOWING IF NECESSARY TRANSHIPMENT OR

UNITED NATIONS AGENCY STANDARD TERMS WITH 50% DEPOSIT WITH ORDER AND BALANCE WITHIN 14 DAYS OF SHIPMENT.

R.E. LANGMAN
DIRECTOR
5. MOVABLE PREFABRICATED CLASSROOMS / WORKSHOPS
5. PREFABRICATED MOVABLE TRAINING UNITS

Prefabricated buildings supplied in modules and mounted on a chassis with retractable supports for stability. These can be fitted out to any specification as classrooms or workshops, i.e. welding, pipe-laying, automotive mechanics, automotive electrics etc.
Supplier: Philip Haris International Ltd.
Lynn Lane, Shenstone, Staffordshire, WS14 OEE, U.K.
Telephone (0543) 480077. Telex 336498

P.S.
The suppliers are submitting a tender to Government Organization for Industry for six workshop at the present time, Dec. 1983.
VOCATIONAL EDUCATION & TRAINING
Prefabricated Mobile Training Facilities

- Provides permanent mobile training facilities to rural areas.
- Mobile concept gives extreme flexibility in design.
- Encourages maximum effective utilisation of teaching staff.
- Readily adaptable to evolving educational needs.
- Allows rapid development from original design assessment to operational unit.
- May be installed in normally difficult locations, using unskilled labour.
- Full consultancy back-up service at all stages of implementation.
The primary requirement for effective training is the provision of well-equipped accommodation for the purposes of presentation. From the nature of the equipment, machinery etc., offered in this catalogue, it can be seen that for the types of teaching programme involved properly implemented and carried out, adequate workshops, lecture rooms, and possibly student accommodation and offices, is important.

To meet these requirements and provide a satisfactory solution, Mid-Hams (International) Limited has evolved a mobile system of prefabricated and transportable mobile units of flexible design which can be assembled in the form of machine workshops, lecture theatres, classrooms, offices etc., and provided with whatever complement of equipment, furniture or other fittings and facilities that the customer requires.