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I

(Information)

COMMISSION

Communication from the Commission concerning the value of the European unit of account by virtue of Article 2 (2) of Council Decision No 75/250/EEC (1) of 21 April 1975 on the definition and conversion of the European unit of account used for expressing the amounts of aid mentioned in Article 42 of the ACP-EEC Lomé convention

The European unit of account on 17 December 1975:

Bfrs/Lfrs	46-0694	SF	3-05855
DM	3-06315	Peseta	69-3920
Fl	3.13364	Skr	5.13022
Pound sterling	0-575005	Nkr	6.47770
Dkr	7-19834	Canadian dollar	1.17824
FF	5.19824	Escudo	31.5544
Lit	795-088	Austrian schilling	21.5782
Irish pound	0.574431	Markka	4.48582
US dollar	1.16263	Yen	355-405

(¹) OJ No L 104, 24. 4. 1975, p. 35.

Π

(Preparatory Acts)

COMMISSION

Proposal for a Council Directive on the approximation of the laws of the Member States relating to measuring systems for liquids other than water

(Submitted by the Commission to the Council on 21 November 1975)

THE COUNCIL OF EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 100 thereof;

Having regard to the proposal from the Commission;

Having regard to the Opinion of the European Parliament;

Having regard to the Opinion of the Economic and Social Committee;

Whereas in each Member State the construction and methods of control of measuring systems for liquids are subject to mandatory provisions which differ from one Member State to another and consequently hinder trade in such systems; whereas it is therefore necessary to approximate these provisions;

Whereas the Council Directive of 26 July 1971 (¹) on the approximation of the laws of the Member States relating to measuring instruments and methods of metrological control has laid down the EEC typeapproval and EEC initial verification procedure for measuring instruments; whereas, in accordance with that Directive, the technical requirements for the design and functioning of measuring systems for liquids other than water should be laid down;

Whereas the Council Directive of 26 July 1971 (²) on the approximation of the laws of the Member States relating to meters for liquids other than water and that of 12 October 1971 (³) on the approximation of the laws of the Member States relating to ancillary equipment for meters for liquids other than water have already laid down the technical requirements for design and functioning which instruments must meet; and whereas it is specified in the Directive on meters for liquids other than water that measuring systems including one or more meters for liquids other than water must be the subject of a separate Directive,

HAS ADOPTED THIS DIRECTIVE:

Article 1

This Directive applies to measuring systems for liquids other than water incorporating volumetric meters which measuring chambers.

Article 2

Those measuring systems which may bear EEC marks and symbols are described in the Annex hereto. They shall be subject to EEC type-approval and shall undergo EEC initial verification under the conditions laid down in the said Annex.

Under the conditions laid down in the Annex, EEC pattern approval may also be granted to components or sub-assemblies of a measuring system.

^{(&}lt;sup>1</sup>) OJ No L 202, 6. 9. 1971, p. 1.

^{(&}lt;sup>2</sup>) OJ No L 202, 6. 9. 1971, p. 32.

^{(&}lt;sup>3</sup>) OJ No L 239, 25. 10. 1971, p. 9.

Article 3

No Member State may, for reasons connected with their metrological qualities, refuse, prohibit or restrict the placing on the market or entry into service of measuring systems for liquids other than water bearing the EEC type-approval symbol and the EEC initial verification mark.

Article 4

1. The Member States shall put into force the laws, regulations and administrative provisions

needed in order to comply with this Directive within 18 months of its notification and shall forthwith inform the Commission thereof.

2. Member States shall communicate to the Commission the text of the provisions of national law which they adopt or intend to adopt in the field covered by this Directive.

Article 5

This Directive is addressed to the Member States.

ANNEX

1. GENERAL REQUIREMENTS FOR MEASURING SYSTEMS

1.1. Definitions

1.1.1. Measuring system

A measuring system for liquids other than water comprises, in addition to the meter itself conforming to Council Directive No 71/319/EEC and the ancillary equipment conforming to Council Directive No 71/348/EEC which may be associated with it, all the equipment to ensure correct measurement or intended to facilitate the operation and all other equipment which can affect measurement in any possible way.

If several meters intended for separate measuring operations operate in conjunction with common components, each meter shall be considered as comprising, with the common components, a measuring system

If several meters are intended for a single measuring operation, the meters are considered as forming a single measuring system.

1.1.2. Minimum delivery

The minimum delivery of a measuring system is determined in conformity with the requirement specified in Council Directives No 71/319/EEC and No 71/348/EEC concerning meters for liquids other than water and ancillary equipment for meters for liquids other than water, having regard to the provisions of this Directive.

In measuring systems intended to measure liquid received into the system, the smallest volume of liquid for which measurement shall be authorized is called minimum reception. The preceding requirement relating to minimum delivery applies, by analogy, to minimum reception.

1.1.3. Maximum rate of flow

The maximum permissible rate of flow of a measuring system is the maximum rate of flow of the meter, or, if several meters are connected in parallel, the sum of the maximum rates of flow of these meters, except in the case where particular conditions impose a smaller value.

1.1.4. Gas separator

A gas separator is an apparatus for continuously separating and removing by an appropriate arrangement any air or gases contained in the liquid.

The gas evacuation arrangement is, in principle, automatic in operation. However, this requirement is waived if a mechanism is provided which automatically stops the flow of liquid when air or gas is likely to enter the meter. In this case, resumption of measurement shall be possible only when the gas has been removed, either automatically or manually.

1.1.5. Gas extractor

A gas extractor is an apparatus designed to extract air or gases accumulated in the pipe work upstream of the meter in the form of pockets no more than slightly mixed with the liquid.

The above requirements concerning the gas evacuation arrangement for the gas separator also apply to that of the gas extractor.

1.1.6. Special gas extractor

A special gas extractor is an apparatus which on the one hand, like the gas separator but under less stringent operating conditions, continuously separates any air or gases contained in the liquid and on the other hand automatically stops the flow of liquid when air or gases accumulated in the form of pockets no more than slightly mixed with the liquid are likely to enter the meter.

1.1.7. Condenser tray

A condenser tray is a closed tank designed to collect, in pressurized liquified gas measuring systems, the gases contained in the liquid to be measured and to condense them before measuring.

1.1.8. Gas indicator

A gas indicator is a apparatus allowing easy detection of any gaseous formation that may be present in the liquid flow.

1.1.9. Sight-glass

A sight-glass is a device allowing the level of the liquid to be checked in a part of the measuring system.

1.2. Field of application

The requirements of this Annex apply to all types of measuring system, provided that the special requirements in the Annex do not specify different requirements.

1.3. Meters

Meters incorporated in a measuring system, including any ancillary equipment, shall be of an EEC type approved for measurement of the liquid concerned in normal conditions of use.

These meters shall be the subject of a separate EEC type-approval or of an approval included in the EEC type-approval of the measuring system in which they are incorporated.

1.4. Point of transfer

1.4.1. Measuring systems shall incorporate a point defining the liquid delivered or received and called the point of transfer. This point of transfer is situated downstream of the meter in delivery systems, upstream of the meter in receiving systems.

- 1.4.2. Measuring systems may be of two types: 'dry hose' systems and 'full hose' systems; the term hose includes rigid pipework.
- 1.4.2.1. Dry hose systems are, in the case of delivery equipment, measuring systems in which the point of transfer is situated upstream of a delivery hose. This point of transfer takes the form of either a weir type sight glass or a closing device, combined, in both cases, with a system which ensures the complete emptying of the delivery hose after each measuring operation.
- 1.4.2.2. Full hose measuring systems are, in the case of delivery equipment, measuring systems of which the point of transfer comprises a closing device situated in the delivery pipework. When the pipework has a free end, the closing device shall be situated as close as possible to this end.
- 1.4.2.3. In the case of receiving equipment, the same requirements apply, by analogy, to the reception pipework upstream of the meter.

1.5. Filters

Measuring systems shall incorporate, upstream of the meters, a device intended to collect solid impurities from the liquids (filter). Filters shall as far as possible be so arranged as to be accessible.

1.6. Elimination of air or gases

1.6.1. General requirement

A measuring system shall be installed in such a way that it does not normally produce, upstream of the meter, entry of air nor release of gas in the liquid. If there is a risk that this requirement might not be met, measuring systems shall incorporate gas eliminating equipment permitting the proper elimination of any gases that may be contained in the liquid before it passes through the meter.

The gas eliminating equipment shall be suitable for the supply conditions and arranged in such a way that the error due to the influence of the gases on the measurement results shall not exceed:

- 0.5 % of the quantity measured for liquids other than potable liquids of a viscosity not exceeding 1 mPa.s,
- 1% of the quantity measured for potable liquids and those whose viscosity exceeds 1 mPa.s.

However there shall be no need for the error to be less than 1 % of the minimum delivery.

1.6.2. Pumped flow

- 1.6.2.1. Subject to the provisions in 1.6.6 below, when the pressure at the pump intake may, even momentarily, fall below atmospheric pressure or the vapour pressure of the liquid, a gas separator shall be provided.
- 1.6.2.1.1. A gas separator shall be subject to separate EEC type-approval or to approval included in the EEC type-approval of the measuring system of which it forms part.
- 1.6.2.1.2. The gas separator shall in principle be installed downstream of the pump. It may, however, be combined with the pump.

It shall always be positioned as close as possible to the meter so that the pressure drop due to the flow of liquid between the two components is negligible. 1.6.2.1.3. The limits of operation of a gas separator are as follows:

- (a) the maximum rate or rates of flow for one or more specified liquids;
- (b) the maximum and minimum pressure limits compatible with proper functioning of the gas eliminating apparatus.
- 1.6.2.1.4. When a gas separator is covered by a separate EEC type-approval, it shall, within the limit of errors laid down in 1.6.1, ensure the elimination of air or gases mixed with the liquid to be measured, under the following conditions:
 - (a) the measuring system shall operate at the maximum rate of flow and the minimum pressure laid down for the gas separator;
 - (b) any proportion by volume of gases relative to the mixture of gas and liquid is permissible if the gas separator is designed for a rate of flow lower than or equal to 20 m³/h; it shall be limited to 30 % if the gas separator is designed for a rate of flow higher than 20 m³/h (Gases shall be measured at atmospheric pressure to determine their percentage).

As regards separators designed to operate at a flow rate of more than 100 m³/h, however, type-approvals can be made by analogy with an approved-type of the same design and smaller dimensions.

1.6.2.1.5. When a gas seperator is approved as a component included in an approved measuring system, the above requirements may be applied to it.

However, when the measuring system incorporates a gas indicator conforming to the definition in 1.1.8, the gas separator need only meet the requirements of 1.6.2.1.4 until gas bubbles are clearly visible in the indicator.

These bubbles need not, however, be present in the case of minute quantities of gas and the separator shall operate under the conditions set out in 1.6.2.1.4 for any volumetric proportion of gas less than 20 %. Experience shows that this requirement is generally met by a properly built separator if its effective volume is at least equal to 8 % of the volume delivered in one minute at the maximum rate of flow indicated on the plate of the measuring system.

- 1.6.2.2. When the pressure at the pump inlet is always greater than atmospheric pressure and the vapour pressure of the liquid and there is no gas separator, a gas extractor or special gas extractor is necessary if gaseous formations are liable to occur between the pump and the meter during non-flow periods or if air pockets can be introduced into the pipework (e.g., when the supply tank is completely empty).
- 1.6.2.2.1. The gas extractor or special gas extractor shall be subject to EEC type-approval or approval included in the EEC type-approval of the measuring system of which it forms part.
- 1.6.2.2.2. The gas extractor or special gas extractor shall in principle be installed downstream of the pump. However, it may also be combined with the pump.

In both cases, it shall normally be installed at the highest point in the pipework, as close as possible to the meter and upstream of it. If it is installed below the level of the meter, a non-return device, fitted if necessary with a pressure limiting valve, shall be incorporated to prevent the emptying of the pipework between it and the meter.

If the pipework on the upstream side of the meter incorporates several high points, several gas extractors may be required.

1.6.2.2.3. The limits of operation of a gas extractor or special gas extractor are as defined for gas separators in 1.6.2.1.3.

1.6.2.2.4. A gas extractor or special gas extractor shall eliminate a gas pocket of a volume at least equal to the minimum delivery without an error greater than 1 % of the minimum delivery.

They shall also be capable of separating continuously a volume of gas equal to at least 5 % of the volume of the liquid delivered at the maximum rate of flow without the error in the measuring system varying by more than 0.5 %.

- 1.6.2.3. The requirements in 1.6.2.1 and 1.6.2.2 shall not prohibit the existence of manual or automatic extraction devices in fixed installations of large dimensions.
- 1.6.2.4. If the supply equipment is arranged in such a way that, whatever the conditions in which it is used, no gas can form in or penetrate into the reception pipework upstream of the meter during measurement no gas elimination device is required provided that the gas formation liable to occur during non-flow periods never causes an error exceeding 1 % of the minimum delivery.

1.6.3. Non-pumped flow

- 1.6.3.1. When a meter is supplied by gravity, without use of a pump, if the pressure of the liquid in all parts of the pipework upstream of the meter and in the meter itself is greater than the vapour pressure and atmospheric pressure, it is not necessary to provide a gas eliminator. However, some arrangement shall, after the measuring system has been brought into service, ensure its remaining correctly filled.
- 1.6.3.2. If this pressure is likely to be less than atmospheric pressure while remaining greater than the vapour pressure, an appropriate arrangement shall prevent the introduction of air into the meter.
- 1.6.3.3. In all circumstances the pressure of the liquid between the meter and the point of transfer shall be higher than the vapour pressure of the liquid.
- 1.6.3.4. When a meter is supplied under gas pressure, an appropriate arrangement shall prevent the entry of gas into the meter.

1.6.4. Gas removal

The gas removal pipe of a gas eliminator shall not include a manually controlled valve if the closing of this valve prevents the operation of the arrangement. If, however, a closing device of this kind is required for reasons of safety, a sealing device must ensure that, when open, it remains in this position.

1.6.5. Anti-swirl device

If it is intended as a general rule that the supply tank of a measuring system be completely emptied, the outlet orifice of the tank shall be provided with an anti-swirl device, except where the system incorporates a gas separator.

1.6.6. Viscous liquid

As the effectiveness of gas separators and gas extractors decreases with an increase in the viscosity of the liquid, these components should not be fitted in the case of liquids with a dynamic viscosity of more than 20 mPa.s at 20 °C. The pump shall be so arranged that the inlet pressure is always greater than the atmospheric pressure. If this condition is not likely to be fulfilled on all occasions, an arrangement shall be fitted to stop the flow of the liquid automatically as soon as the inlet pressure is less than atmospheric pressure. A manometer shall be used to monitor this pressure. These conditions are not necessary if the measuring system incorporates devices ensuring that no air can be introduced through the joints in the sections of pipework subjected to reduced pressure. When the measuring system is not in use, the pipework shall be kept full of liquid up to the point defining the quantities measured.

1.7. Gas indicator

- 1.7.1. Measuring systems may be fitted with a gas indicator. These arrangements may be made obligatory in cases specified in Chapter 2.
- 1.7.2. The smallest type of gas indicator permissible for use is a transparent cylinder with an internal diameter equal to the diameter of the meter connecting pipe and with a length three times the internal diameter; the length need not, however, be more than 150 mm.

If the internal diameter of the connecting pipe is equal to or greater than 80 mm, it shall be regarded as adequate if the tube incorporates sufficiently large transparent sections for air or gas bubbles to be easily observed through them. If this is the case, the length of the transparent sections must be at least equal to 150 mm.

The gas indicator must be built and installed in such a way as to allow all the liquid through without any being left behind. When the gas indicator is installed on a by-pass, an instrument must be installed on the pipe so that, for all rates of flow within the measuring range, it is possible to establish the flow of the liquid.

- 1.7.3. The gas indicator shall be downstream of the meter.
- 1.7.4. In dry hose measuring systems the gas indicator may take the form of a weir-type sight glass and may also be used as a point of transfer.
- 1.7.5. The gas indicator may be provided with a bleed screw or some other blow-off arrangement when it forms a high point in the pipework. No pipe shall be connected to the blow-off arrangement. Flow indicators (e.g., spirals or bladed wheels) may be incorporated in the gas indicator, provided that such devices do not prevent the observation of any formations of gas which may be contained in the liquid.

1.8. Complete filling of the measuring system

1.8.1. The meter and the pipework from the meter to the point of transfer shall be automatically kept full of liquid during the measuring operation and when the system is not in use.

If this condition is not fulfilled, particuarly in cases where the installation is fixed, it must be possible for the complete filling of the measuring system up to the point of transfer to be effected manually and monitored during measurement and when the system is not being used. To ensure the complete elimination of air and gas from the measuring system, blow-off arrangements, if possible with small windows, shall be provided at appropriate positions.

1.8.2. The pipework between the meter and the point of transfer shall not, in general, induce errors of more than 1 % of the minimum delivery.

Chapter 2 shall specify in some particular cases the technical conditions to be fulfilled in order that this requirement can be met.

1.8.3. Subject to the provisions in 1.6.3.1, 1.6.3.2 and 1.6.3.3, a pressure maintaining device shall, if necessary, be placed downstream of the meter to ensure that the pressure in the gas eliminators and in the meter is always greater than atmospheric pressure and the vapour pressure of the liquid.

- 1.8.4. Measuring systems in which the liquid is likely to flow in the direction opposite to that for normal flow when the pump has stopped shall be provided with a non-return arrangement, fitted with a pressure limiting device if necessary.
- 1.8.5. In dry-hose measuring systems the pipework downstream from the meter and, if necessary, the pipework upstream of the meter shall comprise a high point so that all parts of the measuring systems remain constantly filled. Draining of the delivery hose referred to in 1.4.2.1 is assured by an air vent. In certain cases this facility may be replaced by special devices such as an auxiliary pump or a compressed-gas injector. In measuring systems designed for minimum deliveries of less than 10 m³, such devices shall operate automatically.
- 1.8.6. In full-hose measuring systems the free end of the hose shall incorporate a device to ensure that the hose is not emptied during periods when the system is not used. This specification may not apply to liquefied gas.

When a closing device is placed downstream of this device, the volume of the space between them shall be as small as possible and in any case less than the maximum permissible error for the minimum delivery.

In this case, particularly for systems intended for measuring viscous liquids, the end of the nozzle shall be so designed that it cannot retain a quantity of liquid exceeding 0.4 times the maximum permissible error for the minimum delivery of the measuring system.

1.8.7. If the hose comprises several components, these shall be assembled either by means of a special connector to keep the hose full or by a connection system which is either sealed or ensures that the components cannot be separated with a commonly used tool.

1.9. Variation of internal volume of full hoses

In the case of hoses in a measuring system, the increase in internal volume due to the change from the coiled position when not subjected to pressure to the uncoiled position when subjected to the pumping pressure without any flow of liquid shall not be more than twice the maximum permissible error for the minimum delivery.

If the measuring system is not provided with a hose stowage drum, the internal volume increase shall not exceed the maximal permissible error for the minimum delivery.

1.10. Branches

1.10.1. In measuring systems which are intended to deliver liquids, branches downstream of the meter are permitted only if they are so arranged as to ensure that the liquid is only discharged from one outlet at a time. In measuring systems which are to receive liquids, branches upstream of the meter are permitted only if they are so arranged that the intake of liquid is effected only through one pipe at a time.

Departures from these requirements can only be approved in the case of delivery systems which are installed so that they cannot supply more than one user at a time and receiving systems which cannot operate for more than one supplier at a time

1.10.2. In measuring systems operating either with a dry hose or a full hose and having flexible pipes, a non-return valve shall be incorporated in the rigid pipework leading to the full hose immediately downstream from the selector valve. In addition the selector valve shall not in any position permit connection of the discharge hose operating as a dry hose with the pipework leading to the full hose.

1.11. By-passes

Any connections intended for by-passing the meter shall be closed by means of blanking flanges. However, if the operating requirements make such a by-pass necessary, it shall be closed either by means of a closing disc or by means of a double closing arrangement with a monitoring cock in between. Closure shall be capable of being ensured by means of stamped seals.

1.12. Valves and control arrangements

- 1.12.1. If the supply conditions are liable to overload the meter, a flow-limiting device shall be provided. This arrangement shall be placed downstream of the meter if it causes a pressure loss. It shall be capable of being sealed.
- 1.12.2. The various positions for the operating components of multi-way valves shall be easily visible and located by notches, stops or other secure arrangements. Departures from this requirement are acceptable whenever the adjacent positions of the operating handle form an angle of at least 90° .
- 1.12.3. Retaining valves and closing arrangements not used to define the quantity measured may have relief valves in order to dissipate any abnormally high pressures which may arise in the measuring system.

1.13. Layout of measuring systems

Measuring systems shall be installed in such a manner that the indicating device is clearly visible in normal conditions of use. If present, the gas indicator and the sight-glass of the gas separator shall as far as possible be observable from one position. Sealing devices shall be easily accessible, plates shall be fixed irremovably and the statutory markings shall be very legible and indelible.

1.14. On-site verification devices

1.14.1. The installation shall permit the performance of on-site testing of the various components and verification of the entire system in normal operating conditions. If necessary, pipework shall be provided to return the measured liquid to a storage tank. The installation shall, as necessary, be equipped with temperature and pressure tappings, especially when the operation or testing of the measuring systems requires a knowledge of these factors.

1.15. Characteristics of a measuring system

The characteristics of a measuring system are as follows:

- maximum rate of flow,
- minimum rate of flow,
- maximum operating pressure,
- minimum operating pressure,
- description of the liquid or liquids to be measured,
- minimum delivery.

1.16. Legends

1.16.1. A measuring system, component or sub-assembly having received pattern approval shall carry a special plate giving the following information:

- (a) the EEC type-approval symbol;
- (b) the identification mark or name of the manufacturer;
- (c) the description chosen by the manufacturer, if any;
- (d) the serial number and year of manufacture;
- (e) the characteristics of the model.

If several meters operate in a single system with the use of common components, the legends required for each part of the system may be combined on a single plate.

The legends on the dial of the indicating mechanism of the meter forming part of the measuring system must not contradict those on the rating plate of the measuring system.

1.16.2. The indications, legends or diagrams required by the Directives concerning the measurement of liquids other than water (1) or by the type-approval certificate shall be marked very visibly either on the dial of the indicating mechanism or very close to it.

1.17. Placing of seals and verification marks

Sealing devices shall be constructed so as to allow the application by stamping of the EEC initial verification marks. Sealing devices requiring the use of sealing pincers shall be permitted only on instruments that are too fragile to allow the marks to be applied by stamping. In all cases, the sealing devices shall be easily accessible.

The stamp-date referred to in 3.3.2.1 of Annex II of Council Directive No 71/316/EEC of 26 July 1971 shall be sealed to a support of the measuring system.

It may be combined with the rating plate of the measuring system referred to in 1.16. In order to allow dismantling for cleaning purposes, the seals shall not be applied when the measuring system is used for potable liquids.

Access to parts which allow the measuring result to be modified and dismantling of the various component instruments of the measuring system shall be prevented by means of sealing devices. However, sealing devices need not be installed on connections made in such a way that it is virtually impossible to dismantle them with a commonly used tool. Furthermore, exceptions may be provided for in the certificate of approval for measuring systems which need to be dismantled in the course of use (measuring systems for potable liquids, for example).

PROVISIONS SPECIFIC TO DIFFERENT TYPES OF MEASURING SYSTEMS 2.

2.1. Liquid fuel measuring system (2)

Liquid fuel measuring systems are measuring systems intended for the delivery of 2.1.1. liquid fuel into the fuel tanks of road vehicles.

> These measuring systems may be used for refuelling pleasure boats and small aircraft with liquid fuel.

> They may include their own supply arrangements or be designed for installation in a central supply system.

⁽¹⁾ Directives No 71/319/EEC and No 71/348/EEC and this Directive.

⁽²⁾ Measuring systems incorporating:

motor fuel blending meters,
 motor fuel and lubricant blending meters,
 electric and electronic indicators and ancillary devices,
 self-service devices,
 measuring systems intended for the supply of liquefied gas, are not included under this heading

2.1.2. When the measuring system comprises its own supply arrangement, a gas separator shall be placed immediately upstream of the meter inlet.

This gas separator shall meet the requirements set out in 1.6.2.1.4 or in 1.6.2.1.5. In the latter case, experience shows that the requirement is generally met if the effective volume of the separator is at least equal to 5 % of the volume supplied in one minute at the maximum rate of flow indicated on the meter plate.

2.1.3. When the measuring system is designed for installation in a central supply system, the general rules in 1.6 shall be applied.

2.1.4. These measuring systems shall incorporate a device for resetting to zero the volume indicator conforming to items 1.1, 1.2, 1.3 and 1.5 of the Annex to Council Directive No 71/348/EEC, as well as a volume totalizer.

If these systems also incorporate a price indicator, this shall be fitted with a device for resetting it to zero, as well as a price totalizer.

Devices for resetting the price indicator and volume indicator to zero shall be incorporated in such a way that the resetting of either of these indicators to zero automatically causes the resetting of the other to zero.

2.1.5. When the road fuel measuring system comprises its own supply arrangement operated by an electric motor, a mechanism shall, after the motor has been stopped, prevent any further delivery of the liquid until the indicator has been returned to zero.

Under no circumstances may resetting to zero be possible during delivery.

In measuring systems supplied by a central system the preceding requirement shall be met by means of an automatic closing mechanism.

- 2.1.6. The non-return device referred to in 1.8.4 shall be obligatory. It shall be placed between the gas eliminator and the meter. However it may be placed immediately after the meter if the gas eliminator is installed above the meter. In this case, it may be combined with the device provided for in 1.8.3. When the non-return device is placed between the gas eliminator and the meter, the resulting pressure loss must be negligible.
- 2.1.7. Hoses shall incorporate a manual closing mechanism which meets the requirements of 1.8.6. An automatic closing mechanism may also be incorporated.

In full-hose measuring systems which are supplied solely by means of a hand-operated pump, only the closing mechanism referred to in 1.8.6 is required.

2.1.8. The liquid fuel measuring systems defined in 2.1.1 above shall be subject to type-approval.

When such systems are intended for installation in a central supply system, type-approval shall be supplemented by one or more typical drawings showing the installation conditions at the point of use.

2.1.9. Measuring systems with a maximum flow rate (Qmax) equal to or less than 100 l/min must have a minimum delivery not exceeding 5 l.

2.1.10. Initial verification

In accordance with 3.2 initial verification of liquid fuel measuring systems shall be carried out in one or two stages depending on whether or not they have their own supply system.

- 2.2. Measuring systems fitted to road tankers for the transport and delivery of liquids with low viscosity and low vapour pressure (except potable liquids)
- 2.2.1. The following provisions shall apply to measuring systems fitted to road tankers or transportable tanks.
- 2.2.2. Tanks fitted with a measuring system may incorporate one or more compartments.
- 2.2.3. Where a tank incorporates more than one compartment, each compartment shall have its own lock (manual or automatic).
- 2.2.4. In accordance with national rules on use, if any, each measuring system shall be used for a specified product or for a class of product for which the meter has received the EEC initial verification marks.

The pipework shall be so designed that the mixing of products in the measuring system is easily prevented.

- 2.2.5. Where tanks are fitted to trailers or semi-trailers, the measuring systems may be affixed either to the tractor or to the trailer or semi-trailer.
- 2.2.6. A measuring system fitted to a road tanker may be of the dry-hose or full-hose type. It may also have either one dry hose and one full hose or two full hoses of different dimensions arranged so as to operate alternately.

In the latter case, change-over shall not be possible during delivery. To this end, change-over may be coupled with the resetting to zero of the volume indicator.

- 2.2.7. Where the meter is fitted with a ticket-printer, the printing of the ticket shall be coupled with the resetting to zero of the volume indicator.
- 2.2.8. A measuring system fitted to a road tanker may be designed to operate solely by pump solely by gravity, either by pump or by gravity, or by gas pressure.
- 2.2.8.1. Measuring systems supplied solely by pump may operate as full-hose or as dry-hose systems.
- 2.2.8.1.1. If there is a risk that the condition in 1.6.2.4 may not be met, the meter shall be preceded by a gas eliminator such as:
 - (a) a suitable gas separator;
 - (b) a gas extractor;

(c) a special gas extractor.

When the meter outlet pressure in the measuring system may be lower than atmospheric pressure but higher than the vapour pressure of the liquid measured, these devices shall be combined with an automatic system to slow down and stop the flow to prevent any air passing into the meter.

When, on the other hand, there is no risk that the meter outlet pressure may be lower than atmospheric pressure (which is the case, in particular, in systems operating only on full-hose) the use of automatic mechanisms to slow down and stop the flow is not obligatory.

2.2.8.1.2. If the separator conforms to the requirements of 1.6.2.1.5, the effective volume of the gas separator shall be equal to at least 5 % of the volume delivered in one minute at the maximum rate of flow of the measuring system.

2.2.8.1.3. The special gas extractor with an automatic stop device shall be fitted with a sight-glass conforming with 1.1.9.

Experience shows that in this case the gas indicator provided for in 1.1.8 is not necessary.

- 2.2.8.1.4. The compartments in road tankers shall be fitted with an anti-swirl device, except when the measuring system has a gas separator conforming to the requirements of 1.6.2.1.4.
- 2.2.8.1.5. Where a measuring system is fitted to a tank of the calibrated-container type, this tank may cease to be considered as a calibrated container.

For a tank to continue to be regarded as a calibrated container, the pipework must be organized in such a way that the requirements concerning calibrated containers continue to be met and fraudulent manipulation of the installation is precluded. If the installation incorporates a pump and the pump is arranged so as to allow direct delivery from a full compartment without use of the meter, that pump must be installed so that it empties wholly by gravity.

- 2.2.8.2. Measuring systems operating solely by gravity shall meet the following requirements:
- 2.2.8.2.1. The equipment must be so designed that the total content of the compartment or compartments can be measured at a rate of flow greater than or equal to the minimum rate of flow through the measuring system.
- 2.2.8.2.2. If there are links with the gas phase in the tank, appropriate devices shall prevent any gas from entering the meter.
- 2.2.8.2.3. The compartments of the tank shall be fitted with an anti-swirl device.
- 2.2.8.2.4. The provisions of 1.6.3.1, 1.6.3.2 and 1.6.3.3 shall apply. An accelerating pump may be used downstream of the point of transfer if the foregoing conditions are satisfied. Such a pump shall not have the effect of increasing the rate of flow at the meter.
- 2.2.8.2.5. In some measuring systems, particularly those having a special gas extractor with an automatic stop device and those having a means of permanent venting to the atmosphere immediately downstream of the point of transfer, a gas indicator shall not be required.

On the other hand, in measuring systems with a manual release into the atmosphere immediately downstream of the point of transfer, a gas indicator shall be obligatory.

- 2.2.8.3. Measuring systems which can operate either by pump or by gravity shall satisfy the requirements laid down in 2.2.8.1 and 2.2.8.2.
- 2.2.8.4. Measuring systems fed by means of gas pressure may operate as dry-hose or as full-hose systems. The pipework linking the device referred to in 1.6.3.4 (¹) above with the meter shall not incorporate any constriction or component likely to cause a pressure loss generating gas formation by releasing the gas dissolved in the liquid.

Such systems shall incorporate a gauge showing the pressure inside the tank. The dial of this pressure shall indicate the zone of permissible pressures.

⁽¹⁾ Arrangement to prevent gas entering the meter, as specified in 1.6.3.4.

- 2.3. Reception measuring systems for the unloading of ships, tank wagons and road tankers
- 2.3.1. Measuring systems designed to measure liquids unloaded from tanker ships, tank wagons and road tankers shall incorporate an intermediate tank in which the level of the liquid determines the point of transfer.

This intermediate tank may be fitted with gas illimination equipment.

- 2.3.1.1. In the case of road tankers and tank wagons, the intermediate tank shall automatically maintain a constant level which is visible or otherwise detectable at the start and on completion of the measuring operation. The permissible variations in the constant level shall correspond to a volume equal to no more than the maximum permissible error for the minimum reception.
- 2.3.1.2. In the case of tanker ships provision for automatic maintenance of a constant level is not necessary; in that case, variations in the content shall be measurable.

If the tanker ship is emptied with the aid of pumps located in the bottom of the ship, the intermediate tank need only be used at the beginning and end of reception.

- 2.3.1.3. In the two latter cases, the cross-section of the intermediate tank shall be such that a quantity equal to the maximum permissible error, for the minimum reception corresponds to a difference in level of at least 2 mm.
- 2.4. Pressurized liquefied gas measuring systems, whether stationary or fitted to road tankers
- 2.4.1. There shall be a permanent link along rigid pipework between these measuring systems and their feed tanks. A non-return valve shall be fitted between the feed tanks and the meter.
- 2.4.2. A pressure maintenance device located downstream of the meter shall ensure that the product is in a liquid state inside the meter during the measuring process. The required pressure may be maintained either at a fixed value or at a value adjusted to suit measurement conditions.
- 2.4.2.1. Where the pressure is maintained at a fixed value, the latter shall be at least equal to the vapour pressure of the product at a temperature 15 °C higher than the highest possible in-service temperature. The setting of a pressure-maintenance device shall be sealable.
- 2.4.2.2. Where the pressure is adjusted to suit measurement conditions, it shall exceed the vapour pressure of the liquid by at least 1 bar during measurement. This function shall be automatic.
- 2.4.2.3. In the case of stationary measuring systems for industrial use, the competent Metrology Service may authorize the use of manually adjustable pressure-maintenance devices, in which case the pressure at the meter outlet shall not be less than the vapour pressure of the product at a temperature 15 °C above the temperature of the liquid during measurement. A diagram should be affixed to the measuring system to show the vapour pressure of the product measured as a function of its temperature. If it is anticipated that these measuring systems may have to operate unsupervised for long periods, the temperature and pressure shall be registered continuously by recording equipment.
- 2.4.3. Upstream of the meter there shall be a gas-elimination device consisting of either a gas separator or a condenser tray.
- 2.4.3.1. The gas' separator shall satisfy the general requirements laid down in section 1 for either the liquefied gas itself or a liquid of greater viscosity.

However, because of verification difficulties, it is permissible for a gas separator to be approved if its effective volume is not less than 1.5 % of the volume delivered in one minute at maximum rate of flow in cases where the pipe connecting the meter to the storage tank is not longer than 25 m. When it exceeds 25 m in length, the effective volume of the gas separator shall be not less than 3 % of the volume delivered in one minute at maximum rate of flow.

It is not necessary to fit either a gas indicator or a sight-glass to liquefied gas measuring systems.

The gas evacuation duct may be connected to the space containing the gas phase in the feed tank or to a self-contained pressure-maintenance device set at a pressure 0.5 to 1 bar below the pressure at the meter outlet. This duct may incorporate a shut-off valve, but it must not be possible to close this valve during the measuring process.

2.4.3.2. The volume of the condenser tray shall depend on the volume of the pipework between the feed-tank valve and the pressure-maintenance valve downstream of the meter. It shall not be less than twice the reduction in volume of the liquid liable to occur if the temperature drops by a value conventionally fixed at 10 °C for pipe work exposed to the atmosphere and 2 °C for buried or thermally insulated pipework. To calculate the contraction, the coefficient of thermal expansion shall be rounded off to $3 \cdot 10^{-3}$ per degree Celsius for propane and propylene and to $2 \cdot 10^{-3}$ per degree Celsius for butane and butadiene. For other products with a high vapour pressure, the values of the coefficient to be adopted shall be fixed by the competent Metrology Service.

The condenser tray shall be fitted with a manually operated blow-off arrangement.

In a measuring system, the condenser tray shall be located at the highest point in the pipework.

The volume calculated by the foregoing method may be spread over several condenser trays located at the highest points in the pipework.

2.4.4. A thermowell shall be provided in the immediate vicinity of the meter.

The user shall be in possession of a verified thermometer graduated at intervals not exceeding 0.5 $^{\circ}$ C.

A pressure gauge shall be fitted between the meter and the pressure-maintenance valve.

For measuring systems incorporated in road tankers, a pressure gauge socket will be regarded as adequate.

- 2.4.5. During measurement, there shall be no connection between the gas phases in the storage tank and the reception tank.
- 2.4.6. Safety valves may be incorporated into measuring systems for the purpose of preventing abnormally high pressure. If these valves are located downstream of the meter, they shall open into the atmosphere or be connected to the reception tank.

Under no circumstances shall the safety valves located upstream of the meter be connected by piping which by-passes the meter to the valves located downstream.

2.4.7. Where operating conditions necessitate the use of detachable hoses, these hoses shall remain full if their volume is greater than the maximum permissible error for the minimum delivery.

Detachable full hoses shall be equipped with special 'coupler' connections for full hoses. Manually operated blow-off arrangements shall be provided, if necessary, at the ends of these hoses.

2.4.8. The monitoring cock of the double closing arrangement specified in 1.12 for any pipework by-passing the meter must be capable of being shut off for safety reasons. In such cases, leaktightness shall be monitored by a pressure gauge fitted between the two shut-off valves or by any other equivalent system.

2.5. Measuring systems fitted to pipelines

- 2.5.1. The measuring systems referred to are those fitted on either piping connecting two stationary tanks or piping leading to or from a pipeline or depot.
- 2.5.2. If several pumps are mounted in series in a pumping station, an automatic locking mechanism shall ensure that the pumps are set in operation in the correct order. If necessary, this mechanism shall be sealable.
- 2.5.3. An appropriate device shall prevent the liquid flowing against the normal direction of flow.
- 2.5.4. If safety valves are fitted on the pipework upstream and downstream of the meter, the discharge pipes from the valves located upstream of the meter shall not lead to the same tank as those from the valves downstream of the meter.
- 2.5.5. Meters fitted to pipelines to measure in succession liquids of different natures must, if possible, be equipped with automatic correcting device to ensure that the requirements of item 6.2 of Council Directive No 71/319/EEC on meters for liquids other than water are satisfied. These correcting devices shall be subject to pattern approval.

However, if the measurement results are used solely for commercial operations or for fiscal operations concerning a limited number of persons or bodies designated in contracts, pipeline operators may be authorized to measure in succession liquids of different natures using the same meter, even if the variations in the error due to the variations in the properties of the liquids are such that the requirements of item 6.2 of the abovementioned Directive cannot be satisfied. In this case, the user shall correct the measurement results by applying the correction coefficients laid down for various viscosity zones within which the provisions specified above must be complied with.

2.6. Measuring systems for milk

- 2.6.1. The following requirements apply to portable measuring systems used for the reception of milk by collecting tankers, to fixed measuring systems used for reception in dairies and to portable or fixed measuring systems used for the delivery of milk.
- 2.6.2. In reception equipment, the point of transfer consists of a constant level in a tank located upstream from the meter. This constant level must be visible before and after each measuring operation. It must be automatically re-established.
- 2.6.2.1. When the meter is supplied by a pump, the constant-level tank may be placed before the pump or between the pump and the meter.
- 2.6.2.1.1. In the first case the tank may itself be supplied by gravity, by the emptying of churns, with the aid of an auxiliary pump or a vacuum system.

If the milk is delivered into the tank with the aid of a pump or a vacuum system, a gas eliminator is necessary; this eliminator may be combined with the constant-level tank.

- 2.6.2.1.2. In the second case, the constant-level tank must act as a gas eliminator.
- 2.6.2.2. Notwithstanding the provisions of 1.8.3, the meter may be supplied by a vacuum system. In this case, since the pressure inside the pipework between the constant-level tank and the meter is lower than atmospheric pressure, the pipework connections must be perfectly leaktight. It must be possible to verify this leaktightness.
- 2.6.2.3. In all cases of reception, the pipework upstream of the constant-level must be completely emptied by an automatic mechanism in usual operating conditions.
- 2.6.2.4. The constant level shall be monitored by means of a sight-glass or level indicator. The level will be regarded as constant when it settles within a zone lying between two lines corresponding to a difference in volume of not more than twice the maximum permissible error on minimum delivery. The distance between the two lines must be at least 20 mm.
- 2.6.2.5. If, to meet the aforementioned requirement, decelerating mechanisms are incorporated in the measuring system, the rate of flow during the decelerating period must not descend below the minimum flow rate of the meter.
- 2.6.2.6. If, in reception equipment in dairies, the liquid measured is conveyed at a level lower than that of the meter, an automatic mechanism shall ensure a pressure higher than atmospheric pressure at the meter outlet.
- 2.6.3. Measuring systems used for the delivery of milk must meet the requirements of section 1.
- 2.6.4. Notwithstanding the general provisions of section 1 on the elimination of air or gas, gas elimination mechanisms must meet the requirements of 1.6.1 solely in operating conditions, i.e., when air enters at the beginning and end of each measuring operation.

For reception equipment, the user must be able to ascertain the leaktightness of the connections so that no air is admitted upstream of the meter during measuring. For delivery equipment, the system must be assembled so that the liquid pressure is always positive in the connecting pipes running from the supply tank.

3. EEC TYPE-APPROVAL AND EEC INITIAL VERIFICATION

3.1. EEC type-approval

3.1.1. EEC type-approval shall relate either to a measuring system capable of being transported to the installation site without prior dismantling or to a component, approval of which is laid down by a Directive (meter, ancillary equipment, gas eliminator), or to a sub-assembly that can be transported without dismantling consisting of one or more components, type-approval of which is laid down in a Directive.

For the measuring systems referred to in the above paragraph, EEC type-approval may be based on plans indicating the characteristics of the various components and their relative positions.

3.1.2. Tests to be carried out

3.1.2.1. The EEC type-approval examination shall include inspection of the piping diagrams and drawings of the measuring system.

In addition, tests shall be carried out in accordance with the following specifications:

In the execution of these tests, the work standards and their use shall be determined in such a way that the measuring inaccuracy of the calibration method does not exceed one-fifth of the maximum permissible error for the instrument tested.

3.1.2.2. Meter test

It is first necessary to determine the curve of errors as a function of rate of flow, using a sufficiently large number of measuring points in the flow zone. It is necessary to verify in particular the width of the range of errors of the meter in the zone; the position of the error curve in relation to the zero line is of lesser importance.

It may also be necessary to carry out tests outside the flow zone, especially for meters and measuring systems for low viscosity liquids (dynamic viscosity not over 17 mPa.s).

Tests must also be carried out at the limits of operating conditions, i.e., for the maximum and minimum temperatures and viscosities specified and for minimum delivery.

In all cases, the test volume shall be selected so as to be large enough to ensure that the value of the scale of the indicator is never greater than one-third of the maximum permissible error.

3.1.2.3. Test of air or gas elimination.

Where there are gas separators and special gas extractors, continuous elimination shall be checked by comparison of the measurement results of a suitable volumetric meter inserted downstream of the separator (special extractor) with or without the addition of air or gas.

For special extractors, it is also necessary to test complete emptying of the tank. If possible, the tests should be carried out with the least favourable liquid. In tests on mock-ups or models on a different scale from the actual equipment, account shall be taken of the laws of similarity concerning viscosity (Reynolds), gravity (Froude) and surface tension (Weber). As a general rule tests on models shall be used only for applications where they are justified.

3.1.2.4. Tests on special measuring systems

- 3.1.2.4.1. Liquid fuel measuring systems
 - The tests shall comprise:
 - (a) checking of the meter, including determination of the influence of ancillary equipment (price indicator, printer, presetting device, etc.);
 - (b) checking of the gas eliminator;
 - (c) checking of the constancy of the hose volume;
 - (d) a special check to verify regular advance of the price indicator (irregular advance may be induced in the first component of the price indicator by sudden closing of the delivery valve).

3.1.2.4.2. Liquefied gas measuring systems

The examination shall comprise:

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- (a) verification on drawings of gas separators as regards area of efficiency and mounting;
- (b) an operating test on the gas eliminator (level regulator) incorporated in the gas separator.

The pressurizing device shall also be verified on the drawing. A model test may possibly be required in special cases by the inspection authority.

3.2. EEC initial verification

3.2.1. General

3.2.1.1. EEC initial verification is compulsory for the measuring systems referred to in 3.1.1.

It is also compulsory for meters, whether alone or accompanied by items of ancillary equipment, and for sub-assemblies incorporating a meter when such equipment is mounted in measuring systems constructed outside the factory where they were manufactured.

- 3.2.1.2. EEC initial verification of a measuring system may be carried out in one or two stages.
- 3.2.1.2.1. It is carried out in one stage when the system is entirely manufactured by a single manufacturer, when it can be transported without being dismantled and when it is verified under the conditions in which it is intended to be operated.
- 3.2.1.2.2. It is carried out in two stages in all other cases.

The first stage concerns the meter only or the meter fitted with any ancillary equipment which must be associated with it, whether or not incorporated in a sub-assembly.

The second stage concerns the measuring system in the actual operating state.

It is carried out in a place selected by the Metrology Service concerned when the measuring system can be transported without being dismantled and the tests can be carried out under the conditions in which the measuring system is intended to be operated.

If these two conditions are not met, the second stage is carried out at the place of installation under operating conditions.

3.2.2. Tests to be carried out

3.2.2.1. When the tests are carried out in two stages:

The first stage consists of:

- an external examination of the volumetric meter, including any ancillary equipment (conformity with the respective patterns),
- a metrological examination of the volumetric meter, including built-in ancillary equipment.

The second stage consists of:

- an external examination of the measuring system including the volumetric meter and ancillary equipment,
- a metrological examination of the volumetric meter and ancillary equipment in the measuring system,
- an operating test on the gas eliminator, if there is one,
- inspection of the adjustment of the required pressure-maintenance devices,
- verification of variations in the internal volume of hoses in full-hose systems,
- determination of residual quantities in empty-hose systems.
- 3.2.2.2. When EEC initial verification is carried out in one stage, the tests referred to in 3.2.2.1 must be performed.

3.2.2.3. The first-stage tests may be carried out on a test bench (possibly in the manufacturer's factory) or on the installed measuring system. The metrological examinations may then be carried out with liquids other than those for which the system is intended.

The second-stage tests must be carried out on the measuring system in the place of installation and with the liquid that the system is intended to measure.

PUBLIC WORKS CONTRACTS

(Publication of notices of public works contracts and licences in conformity with Council Directive 71/305/EEC of 26 July 1971 supplemented by Council Directive 72/277/EEC of 26 July 1972)

MODEL NOTICES OF CONTRACTS

A. Open procedures

1. Name and address of the authority awarding the contract (Article 16e)(¹):

2. The award procedure chosen (Article 16b):

3. a) The site (Article 16c):

- b) The nature and extent of the services to be provided and the general nature of the work (Article 16c):
- c) If the contract is subdivided into several lots, the size of the different lots and the possibility of tendering for one, for several, or for all of the lots (Article 16c):
- d) Information relating to the purpose of the contract if the contract entails the drawing up of projects (Article 16c):
- 4. Any time limit for the completion of the works (Article 16d):
- 5. a) Name and address of the service from which the contract documents and additional documents may be requested (Article 16f):
 - b) The final date for making such request (Article 16f):
 - c) Where applicable, the amount and terms of payment of any sum payable for such documents (Article 16 f):
- 6. a) The final date for receipt of tenders (Article 16g):
 - b) The address to which they must be sent (Article 16g):
 - c) The language or languages in which they must be drawn up (Article 16g):
- 7. a) The persons authorized to be present at the opening of tenders (Article 16h):
 - b) The date, time and place of this opening (Article 16h):
- 8. Any deposits and guarantees required (Article 16i):

9. The main procedure for financing and payment and/or references to the instruments regulating these (Article 16j):

- 10. Where applicable, the specific legal form which must be assumed by the group of contractors to whom the contract is awarded (Article 16k):
- 11. The minimum economic and technical standards required of the contractors (Article 16l):
- 12. Period during which the tenderer is bound to keep open his tender (Article 16m):
- 13. Criteria for the award of the contract. Criteria other than that of the lowest price shall be mentioned if they do not appear in the contract documents (Article 29):
- 14. Other information:
- 15. The date of dispatch of the notice (Article 16a):

⁽¹⁾ The Articles in brackets refer to Council Directive 71/305/EEC of 26 July 1971 (OJ No L 185, 16. 8. 1971, p. 5).

1. Name and address of the authority awarding the contract (Article 17a)⁽¹⁾:

- 2. The award procedure chosen (Article 17a):
- 3. a) The site (Article 17a):
 - b) The nature and extent of the sevices to be provided and the general nature of the work (Article 17a):
 - c) If the contract is subdivided into several lots, the size of the different lots and the possibility of tendering for one, for several or for all of the lots (Article 17a):
 - d) Information relating to the purpose of the contract if the contract entails the drawing up of projects (Article 17a):
- 4. Any time limit for the completion of the works (Article 17a):
- 5. Where applicable, the specific legal form which must be assumed by the group of contractors to whom the contract is awarded (Article 17a):
- 6. a) The final date for the receipt of requests to participate (Article 17b):
 - b) The address to which they must be sent (Article 17 b):
 - c) The language or languages in which they must be drawn up (Article 17b):

7. The final date for the dispatch of invitations to tender (Article 17c):

- 8. Information concerning the contractor's personal position, and the minimum economic and technical standards required of him (Article 17d):
- 9. The criteria for the award of the contract if these are not stated in the invitation to tender (Article 18d):

10. Other information:

11. The date of dispatch of the notice (Article 17a):

(1) The Articles in brackets refer to Council Directive 71/305/EEC of 26 July 1971 (OJ No L 185, 16. 8. 1971, p. 5).

Open procedure

- 1. Gebouwenfonds voor de Rijksscholen, Provinciale dienst Brabant, rue de la Loi, 89, 1040 Brussels, Belgium.
- 2. Public invitation to tender. Specification No B/51-01/74/141.
- 3. a) Jette HRITONA (Advanced technical instructors' training college).
 - b) Construction of living accommodation carcass and finishing works.
 - Classification: category D, class 7 (for works valued at Bfrs 75 000 000 150 000 000).
 - c)
 - d)
- 4. 400 working days.
- 5. a) The documents may be inspected and purchased at the office for the sale and inspection of specifications for public works contracts, rue du Luxembourg 49, 1040 Brussels, Belgium, and may also be inspected at the address given in 1.
 - b)
 - c) Specification and dimensions: Bfrs 955.
 Tender form and bill of quantities: Bfrs 20.
 43 plans: Bfrs 2 170.

Payment for these documents must be made into postal cheque account No 000.000.9455-46 of the office mentioned in 5 a).

- 6. a) The documents must be received by the chairman before the meeting for the opening of tenders is declared open.
 - b) Tenders and bills of quantities must be sent to Mr D. T^oSas, Inspecteur-generaal, address as in 1.
 - c) Dutch or French.
- 7. a) In public.
 - b) 11 a.m. on 15 January 1976, address as in 1.
- 8. Proof of a guarantee must be sent to Mr d. T'Sas, address as in 1.
- 9. Monthly instalments.
- 10.
- 11.
- 12. 75 calendar days from the day the tenders are opened.
- 13. Lowest acceptable tender.
- 14.
- 15. 8 December 1975.

(2133/1917)

Open procedure

- Ministère des Travaux Publics, Administration des Voies Hydrauliques, Service de la Meuse Liégeoise, Boulevard Frère Orban, 7, 4000 Liège, Belgium (Tel. 041/23 58 85).
- 2. Public invitation to tender.
- 3. a) Province of Liège.
 - b) Construction of a dam on the Meuse at Lixhe.
 - c) Classification: category B, class 8 (for works valued at more than Bfrs 150 000 000).
 - d)
- 4. 42 calendar months.
- 5. a) Office for the sale and inspection of specifications and other documents concerning public works contracts, 49, rue du Luxembourg, 1040 Brussels, Belgium (Tel. 02/513 14 47, postal cheque account (CCP) No 000-0009455-46).

The documents may be consulted and further information obtained at the address given in 1.

- b) 18 February 1976.
- c) Specification No E3/76 A 43: Bfrs 665.

Tender form: Bfrs 20.

34 plans: Bfrs 3070.

These documents must be paid for in advance.

- 6. a) 18 February 1976.
 - b) Address as in 1.
 - c) French; the forms attached to the specification must be used.
- 7. a) In camera.
 - b) 18 February 1976 at 11 a.m., address as in 1.
- 8. 5 % of the contract value. Two-year guarantee period.
- Monthly payments as the work progresses. The contract will include a price fluctuation clause for labour and materials.
- 10. Associations, including consortia, may tender.
- 11. See 3 c).
- 12. 150 calendar days from the date on which tenders are opened.
- 13. The contract will be awarded to the lowest acceptable tender.
- 14. Since notices of correction may be issued during the publication period, contractors from Community Member States are requested to apply to the address given in 1 not later than 10 days before the date on which tenders are opened, for information on any changes made.

15. 9 December 1975.

(2142/1926)

No C 290/26

Restricted procedure

- 1. Direction de l'Equipement de Meurthe et Moselle, Case Officielle No 125, 54037 Nancy Cedex, France.
- 2. Restricted invitation to tender with public preselection.
- 3. a) The works concerned are situated in the south of the conurbation of Nancy, within the Commune of Vandoeuvre.
 - b) Construction of a section of motorway approximately 550 m in length comprising 2 two-lane carriageways with central reservation, passing on a supported embankment firstly over the intersection of the Avenue Jeanne d'Arc and the road RN 57 in Vandoeuvre and secondly over the access roads to the motorways. The works to be carried out comprise the earthworks, the supporting walls (reinforced earth type), the carriageways and two structures (one open-portal underpass and one closed frame-type underpass).

Approximate value of the works including tax: FF 6 000 000 (earthworks FF 2 000 000, structures and walls FF 3 000 000, carriageways FF 1 000 000).

- c)
- d)
- 4. 9 months.
- Independent contractor or consortium with joint and several liability; the consortium must be formed specially for the application and may not be modified subsequently.

It is stipulated that the same contractor may not belong to several consortia and may compete only once, either as an independent contractor or within a consortium.

- 6. a) 12 January 1976.
 - b) Service de l'Equipement, Arrondissement Transports Urbains, Case Officielle No 125, 54037 Nancy Cedex, France.
 - c) French.
- 7. 31 March 1976.
- 8. The applicant must submit the information form in accordance with Annex III to the instruction of 14 March 1973 published in the Journal Officiel de la République française of 10 April 1973.

Contractors who have already submitted their references for the first section (Vandoeuvre-Houdemont) of the B 33 motorway may apply without enclosing their list of references a second time.

- 9. Price.
- 10. All additional information will be provided on application to the address given in 6 b).
- 11. 8 December 1975.

(2132/1916)

- Milton Keynes Development Corporation, Wavendon Tower, Wavendon, Milton Keynes MK17 8LX, England, United Kingdom.
- 2. The lowest acceptable offer among selected contractors.
- 3. a) Denbigh Hall (advance factory units) in the southern area of Milton Keynes, North Buckinghamshire, England.
 - b) Three single-storey buildings with internal two-storey office accommodation to architect's design, each approximately 5 096 m² with steel frames, flat roofs and insulated ribbed sheet steel cladding, together with car parks and associated site works.
 - Cost between £1 000 000 and £1 750 000.
 - c)
 - d)
- 4. Approximately 15 months.
- 5. In the event of a group of contractors submitting an acceptable offer it will be necessary for each member of the group to sign an undertaking that each company or firm in the group will be jointly and severally responsible for the due performance of the contract.
- 6. a) 31 December 1975.
 - b) Quantity Surveying Manager, address as in 1.
 - c) English.

- 7. End of January 1976.
- 8. Proof of inscription of the company on a professional register or the companies register in the United Kingdom or Ireland.

Name and address of contractors bankers from whom the corporation's bankers can enquire as to contractors financial standing.

Balance sheets for the past three years, including a statement of turnover on construction works.

A statement of the technical qualifications of the managerial and supervisory staff who would be responsible for executing the work and any previous experience of UK construction practice.

A list of contracts over 1 000 000 units of account, similar to the contract to be awarded, carried out during the past five years, the value and location of each contract and the authority for whom executed.

Details of labour resources and plant available.

- 9. The award criteria will be shown in the tender documents.
- 10. The contract will be based on articles of agreement and conditions of contract contained in the standard form of building contract, local authorities or private edition with quantities 1963 edition (latest revision), issued by the Joint Contracts Tribunal as amended by the employer. New contracts consisting of the repetition of similar works may be negotiated with the successful tenderer.

11. 5 December 1975.

(2134/1918)

- 1. Director of Works, Home Office, Prison Department, St Vincent House, 30 Orange Street, London WC2H 7HT, England, United Kingdom.
- 2. Lowest acceptable offer in competition among selected tenderers.
- 3. a) HM Remand Centre, Thorp Arch, Yorkshire, England.
 - b) The erection and completion of five buildings comprising cell block, reception and visiting block, chapel, education block, sports hall including associated roads, drainage and external works.

The estimated cost of the works is between £850 000 and £900 000.

- c) Nominated subcontractors will be recommended for mechanical and electrical installations.
- d) Fully planned service.
- 4. The contract period will be 27 months from the date of possession of the site.
- 5. In the event of a group of contractors submitting an acceptable offer it will be necessary for each member of the group to sign an undertaking that each company or firm in the group will be jointly and severally responsible for the contract.
- 6. a) 14 February 1976.

b) As in item 1.

c) English.

- 7. Approximately 1 April 1976.
- Proof of inscription of the company on a professional register or the companies register in the United Kingdom or Ireland.

Balance sheets for past three years including a statement of turnover on construction works.

A statement of technical qualifications of the managerial and supervisory staff who would be responsible for executing the work, and any previous experience of UK construction practice.

A list of jobs over 1 000 000 units of account carried out during the past five years, the value and site of each job and the authority for whom executed.

Details of plant and machinery available for executing the work.

Details of the labour force it is proposed to use, i.e. own or locally recruited.

Note: Companies from Belgium or Italy may submit certificate of inscription in lieu of the first, second and fourth indents above.

- 9. See item 2 above.
- 10. The contract will be based on the general conditions of government contracts for building and civil engineering works, specifications, drawings and bills of quantities. Price fluctuation on labour rates and materials will be allowed. Progress payments will be made monthly on basis of the value of certified works done and materials delivered to site.

11. 8 December 1975.

(2137/1921)

5.

- 1. Social- og sundhedsforvaltningen i København, Socialdirektoratet, Bernstorffsgade 17, 1592 København V, Denmark.
- 2. Lowest acceptable offer in competition between selected firms.
- 3. a) Ryesgade 22-28, 2200 Köbenhavn N, Denmark.
 - b) Earthworks, concrete and reinforced concrete work for a nursing home (floor area approximately 14 000 m²). Estimated cost: approximately Dkr 10 000 000.
 - c)
 - d)

.

4. Work should begin in April 1976 and be completed in April 1977.

6. a) 6 January 1976.

b) Stadsarkitektens direktorat, Njalsgade 15, 2300 Köbenhavn S, Denmark.

c) Danish.

- 7. 16 January 1976.
- 8. Article 25 (a), (b) and (c) and Article 26 (a), (b), (c), (d) and (e) of Council Directive 71/305/EEC of 18 August 1971.

9.

10.

11. 9 December 1975.

(2139/1923)

No C 290/30

Restricted procedure

- 1. Secrétariat d'Etat aux Postes et Télécommunications, Direction des Télécommunications de Paris, Service Bâtiments, 18 Boulevard de Vaugirard, 75731 Paris Cedex 15, France.
- 2. Restricted invitation to tender.
- 3. a) Allée Albert Camus at Fontenay sous Bois.
 - b) Construction of an extension to the Fontenay sous Bois telephone exchange:

floor area of approximately 7 500 m²;

general undertaking consisting of: earthworks, foundations, reinforced concrete frame, masonry, plastering, stoneware tiling, ceramic finishings, metal fittings, joinery, locksmithing, plumbing, sealing, asphalting, planted areas, heating, ventilation and air conditioning, electricity, plastic floor finishings, painting, glazing and mirrors, hoist lift, high and low voltage, electricity, generator sets, fire detection apparatus.

c)

d)

- 4. 12 months.
- 5. General contractor.
- 6. a) 15 January 1976.
 - b) Monsieur le Directeur des Télécommunications de Paris Intra-Muros, Bureau 1019, address as in 1.
 - c) French.
- 7. October 1976.
- Annual turnover of more than FF 50 million.
 Average annual work force of more than 300 persons.
 Professional qualifications for the various types of work listed in 3 b).
- 9. Price and contractor's qualifications.
- The contract will be awarded at an all-in price. Letters of application must be sent by registered post.
- 11. 9 December 1975.

(2141/1925)

18.12.75

- 1. The Department of the Environment, Midland Road Construction Unit, Brandon House, 52/54 Holly Walk, Learnington Spa, Warwickshire, England, United Kingdom.
- 2. Lowest acceptable offer in competition among selected tenders, or special award criteria as applied to offers received from selected tenderers.
- 3. a) On the Exeter to Leeds trunk road A61, between Breadsall and Holbrook, north of Derby, England.
 - b) The construction of approximately 4.3 km of dual two-lane trunk road in either flexible or rigid pavement including one interchange. The construction of 3 reinforced concrete bridges, 2 pre-cast pre-stressed concrete bridges and 1 'Armco' culvert. The excavation of approximately 530 000 m³ of material plus 130 000 m³ imported fill for embankment.

The estimated cost of the whole works is approximately $\pounds 6\ 000\ 000.$

- c)
- d)
- 24 months from the date of commencement of the works as notified by the engineer to the contractor.
- 5. In the event of a group of contractors submitting an acceptable offer it will be necessary for each member of the group to sign an undertaking that each company or firm in the group will be jointly and severally responsible for the due performance of the contract.
- 6. a) 5 January 1976.
 - b) The Department of the Environment, Con(H)4, Room S3/02, 2 Marsham Street, London SW1P 3EB, England.

c) English.

- 7. Approximately late February 1976, subject to the satisfactory completion of the relevant statutory procedures.
- 8. Proof of the inscription of the company on a professional register or the companies register in the United Kingdom or Ireland.

Balance sheets/accounts for the past 3 years including a statement of turnover on construction work and proportion of turnover on civil engineering work.

A statement of the technical qualifications of the managerial and supervisory staff, who would be responsible for executing the work, and any previous experience of United Kingdom construction practice.

A list of jobs over 1 000 000 units of account carried out during the past 5 years, the value and site of each job and the authority for whom executed.

Details of plant and machinery available for executing the work.

Whether the contractor proposes to use his own labour force or to rely on locally recruited labour.

- 9. Details of the award criteria will be shown in the tender invitation.
- 10. The contract will be based on the Institution of Civil Engineers conditions of contract for use in connection with works of civil engineering (fifth edition) as modified by the Department of the Environment for use in highway works contracts, the specification for road and bridge works, drawings and bill of quantities. Price fluctuations on labour and materials will be permitted. Interim payments will be made monthly on the basis of the valuation of work executed and materials delivered to the site.
- ¹11. 8 December 1975.

(2143/1927)

No C 290/32

Restricted procedure

- 1. City Council of Kingston upon Hull, Guildhall, Kingston upon Hull, North Humberside, England, United Kingdom.
- 2. Lowest acceptable offer in competition among selected contractors.
- 3. a) 138 dwellings, Bransholme NA3 North Part III.
 - b) Construction of superstructures and substructures of dwellings, together with external works but excluding roads and sewers.
 - c) All work will be incorporated in one contract. There will be no separate lots.
 - d)
- 4. The contract period will be 17 months and it is anticipated that work will commence during April, 1976.
- 5. In the event of a group of contractors submitting an acceptable offer, it would be necessary for each member of

the group to sign an undertaking that each company or firm in the group will be jointly and severally responsible for the contract.

- 6. a) 29 December 1975.
 - b) The City Architect, Guildhall, Kingston upon Hull, North Humberside, England.
 - c) English.
- 7. Not later than the end of January 1976.
- 8. All the references in Articles 25 and 26 of Council Directive 71/305/BEC may be required.

9. See 2 above.

10.

11. 8 December 1975.

(2144/1920)

- City Council of Kingston upon Hull, Guildhall, Kingston upon Hull, North Humberside, England, United Kingdom.
- 2. Lowest acceptable offer in competition among selected contractors.
- 3. a) 125 dwellings Victor Street/Arundel Street Part I.
 - b) Construction of superstructures and substructures of dwellings, together with external works but excluding roads and sewers.
 - c) All work will be incorporated in one contract. There will be no separate lots.
 - d)
- 4. The contract period will be 16 months and it is anticipated that work will commence during April 1976.
- 5. In the event of a group of contractors submitting an acceptable offer, it would be necessary for each member of

the group to sign an undertaking that each company or firm in the group will be jointly and severally responsible for the contract.

- 6. a) 29 December 1975.
 - b) The City Architect, Guildhall, Kingston upon Hull, North Humberside, England.
 - c) English.
- 7. Not later than early February 1976.
- 8. All the references in Articles 25 and 26 of Council Directive 71/305/EEC may be required.
- 9. See 2 above.
- 10.
- 11. 8 December 1975.

(2145/1929)

No C 290/34

Restricted procedure

- 1. City Council of Kingston upon Hull, Guildhall, Kingston upon Hull, North Humberside, England, United Kingdom.
- 2. Lowest acceptable offer in competition among selected contractors.
- 3. a) 74 dwellings, Brunswick RA 22, Stage V.
 - b) Construction of superstructures and substructures of dwellings, together with external works but excluding roads and sewers.
 - c) All work will be incorporated in one contract. There will be no separate lots.
 - d)
- 4. The contract period will be 13 months and it is anticipated that work will commence during May 1976.
- 5. In the event of a group of contractors submitting an acceptable offer, it would be necessary for each member of

the group to sign an undertaking that each company or firm in the group will be jointly and severally responsible for the contract.

- 6. a) 29 December 1975.
 - b) The City Architect, Guildhall, Kingston upon Hull, North Humberside, England.
 - c) English.
- 7. Not later than the middle of February 1976.
- 8. All the references in Articles 25 and 26 of Council Directive 71/305/BEC may be required.

9. See 2 above.

- 10.
- 11. 8 December 1975.

(2147/1931)

- 1. Ministère de l'Equipement, Direction Départementale de l'Equipement des Pyrénées-Atlantiques, 17, rue Victor Hugo, 64000 Pau, France.
- 2. Restricted invitation to tender.
- 3. a) RN 10 road in the town of Biarritz (Pyrénées-Atlantiques).
 - b) Prestressed concrete viaduct 485 m in length (foundations, piers, abutments, reinforced earth access embankments).
 - c) Single lot estimated value of the works: FF 14 500 000.
 - d) Project drawn up by the French Administration.
- 4. 18 months.
- 5. General contractor or contractors with joint and several responsibility.

- 6. a) 15 January 1976.
 - b) As in 1.
 - c) French.
- 7. To be fixed in due course.
- 8. Contractors must support their application with the information contained in the form referred to in Article 41.1 of the Code des Marchés Publics.
- 9. Cost, completion dates, technical merits and the degree of obstruction caused by the works.
- 10. Traffic on the present RN 10 road must be maintained without interruption.

Work will be suspended from 15 June to 15 September 1976.

11. 15 December 1975.

(2149/1933)

Official Journal of the European Communities

- 1. Grimsby Borough Council, Municipal Offices, Town Hall Square, Grimsby, South Humberside, England, United Kingdom.
- 2. Experienced civil engineering contractors are invited to apply for inclusion in a select list of contractors. Contractors on the select list will be asked to submit a tender.
- a) The Laceby Acres Housing Development is situated on the western perimeter of the borough some 2.5 miles (4 km) from the town centre, adjacent to the A18 and consists of approximately 20 hectares.
 - b) The nature of the work involves the construction of the distributor roads and provision of main drainage, which comprises the following:

distributor roads:

the construction of approximately 1 250 m of 7.3 m wide carriageway and approximately 500 m of 5.5 m wide carriageway;

main drainage:

the laying of approximately 1 400 m of concrete pipes varying in size from 300 mm to 750 mm in open fields at an approximate depth of 2.75 m and approximately 400 m of 225 mm diameter vitrified clay pipes at an approximate depth of 2 m; a small pumping station to house two submersible pumps of maximum capacity 70 l/s; manholes and ancillary works.

c)

d)

- 4. The contract period will be approximately nine months. The work is due to commence in July 1976.
- 5.
- 6. a) 23 January 1976.
 - b) The Borough Engineer, address as in 1.
 - c) English.
- 7. 23 March 1976.
- 8. Applications should include details of recent contracts of a similar nature, together with the name of employing authorities to whom references may be made and the council reserves the right to ask for a banker's reference if considered necessary.
- 9. The council does not bind itself to accept the lowest or any tender.

10.

11. 5 December 1975.

(2135/1919)

- 1. City Council of Kingston upon Hull, Guildhall, Kingston upon Hull, North Humberside, England, United Kingdom.
- 2. Lowest acceptable offer in competition among selected contractors.
- 3. a) 189 dwellings, Bransholme NA4 Part I.
 - b) Construction of superstructures and substructures of dwellings, together with external works but excluding roads and sewers.
 - c) All work will be incorporated in one contract. There will be no separate lots.
 - d)
- 4. The contract period will be 20 months and it is anticipated that work will commence during May, 1976.

- 5. In the event of a group of contractors submitting an acceptable offer, it would be necessary for each member of the group to sign an undertaking that each company and firm in the group will be jointly and severally responsible for the contract.
- 6. a) 29 December 1975.
 - b) The City Architect, address as in 1.
 - c) English.
- 7. Not later than the middle of February 1976.
- 8. All the references in Articles 25 and 26 of Council Directive 71/305/EEC may be required.

9. See 2 above.

- 10.
- 11. 8 December 1975.

(2146/1930)

No C 290/38

Restricted procedure

- 1. South Yorkshire County Council, County Hall, Barnsley, S70 2TN, England, United Kingdom.
- 2. Lowest acceptable offer in competition among selected tenderers or special award criteria as applied to alternative offers received from selected tenderers.
- 3. a) Junction of the A1 (M), A1 (T) and the A638 (T), 8 km north-west of Doncaster, South Yorkshire, England.
 - b) Provision of grade separation at the junction. The A638 (T) is to be diverted onto a new dual, two-lane carriageway, 1.5 km long. This is carried over the A1 (M) south of the existing junction on two parallel, simply-supported bridges of composite construction. The identical structures comprise four spans of 12, 21, 25 and 12 m, of precast, prestressed concrete 'M' beams with an *in situ* reinforced concrete deck slab. The supports are free-standing, *in situ* reinforced concrete piers and abutments.

To the east the existing single carriageway is to be dualled through the Woodlands district of Adwick-le-Street for a distance of 1.2 km.

The dual two-lane A1 (T) is to be reconstructed across the existing junction and re-aligned in a northerly direction for 0.3 km.

Access to and egress from each of the two main carriageways is by a system of link roads.

Pavements are generally of flexible construction but a rigid alternative is included for the new lengths of A638 (T) carriageway.

The major part of the works is on embankment, for which approximately 240 000 m³ of imported suitable fill material will be required.

The estimated cost of the works is £3 500 000.

c)

d)

- 4. Twenty-one months from the date of the commencement of the works as notified by the engineer to the contract.
- 5. In the event of a group of contractors submitting an acceptable offer, it will be necessary for each member of the group to sign an undertaking that each company or firm in the group will be jointly and severally responsible for the due performance of the contract.

- 6. a) 5 January 1976.
 - b) The Department of the Environment, CON (H)4, Room S3/02, 2 Marsham Street, London, SW1P 3EB, England.
 - c) English.
- 7. Approximately mid-March.
- 8. Proof of inscription of the company on a professional register or the Companies Register in the United Kingdom or Ireland.

Balance sheets/accounts for the past three years, including a statement of turnover on construction work and proportion of turnover on civil engineering work.

A statement of the technical qualifications of the managerial and supervisory staff who would be responsible for executing the work, and any previous experience in UK construction practice.

A list of jobs over one million units of account carried out during the past five years, the value and site of each job and the authority for whom executed.

Details of plant and machinery available for executing the work.

Whether the contractor proposes to use his own labour force or to rely on locally recruited labour.

- 9. Details of the award criteria will be shown in the tender invitation.
- 10. The contract will be based on the Institution of Civil Engineers conditions of contract for use in connection with works of civil engineering Construction (fifth edition), as modified by the Department of the Environment for use in highway works contracts, the specification for road and bridge works, drawings and bill of quantities. Price fluctuations on labour and materials will be permitted. Interim payments will be made monthly on the basis of the valuation of work executed and materials delivered to the site.

11. 8 December 1975.

(2148/1932)

1. South Pembrokeshire District Council, District Offices, Llanion Park, Pembroke Dock, Dyfed, Wales, United Kingdom.

2. Restricted invitation to tender.

- 3. a) Coxhill, Narberth, Dyfed, Wales.
 - b) The erection of 51 houses and two disabled-persons bungalows (all in traditional construction) comprising:
 43 2-bed 4-person dwellings, all identical; 8 3-bed 5-person dwellings, all identical; 2 disabled persons bungalows; together with all attendant drainage, roads and landscaping.
 - c)
 - d)
- 4. 18 months from the commencement of works on site.
- Standard form of building contract, local authority edition (July 1975 revision) clause 31F (fluctuations) will apply.

- 6. a) 2 January 1976.
 - b) Mr H. Halpin, C.Eng., M.I.C.E., Director of Technical Services, address as in 1.
 - c) English.
- 7. 8 January 1976.
- 8. Applicants will be required to furnish: appropriate references from bankers.

statement of turnover on construction works for the three previous years.

a list of works carried out over the previous five years. educational and professional qualifications of those of the managerial staff responsible for carrying out the work.

- 9. Lowest acceptable offer from selected tenderers.
- 10. The contractor will be required to find surety by means of a contract guarantee bond through a bank or insurance company for the due performance of the contract.
- 11. 8 December 1975.

(2150/1934)

No C 290/40

Restricted procedure

- 1. The Department of the Environment, Property Services Agency, Directorate of Civil Accommodation, Contracts Section, 'C' Block, Room 105, Whitgift Centre, Wellesley Road, Croydon, Surrey, England, United Kingdom.
- 2. Lowest acceptable offer in competition among selected tenderers.
- 3. a) Faraday Road, South Dorcan, Swindon, Wiltshire, England, United Kingdom.
 - b) Construction of a skill centre comprising a single-storey steel-framed training building and single-storey brick administration and canteen building together with minor ancillary buildings, paved areas and associated works.
 - c) Nominated subcontracts will be recommended as follows:

Steel structure and cladding to the training building, mechanical, electrical, hot water and ventilation services, canteen equipment.

The authority will provide:

fire-fighting equipment; electric light fittings; sanitary incinerators; floor coverings.

The estimated cost of the work is between £1million and £1.25 million.

- d) Design of the main contract works will be undertaken by the authority.
- 4. 13 months.
- 5. In the event of a group of contractors submitting an acceptable offer it will be necessary for each member of the group to sign an undertaking that each company or firm in the group will be jointly and severally responsible for the contract.
- 6. a) 22 January 1976.

b) As item 1 above.

c) English.

- 7. The approximate date for invitations to tender will be April 1976.
- 8. Contractors wishing to tender should provide:

proof of inscription of the company on a professional register or the companies register in the United Kingdom or Ireland;

balance sheets for the past three years including a statement of turnover on construction works;

a statement of technical qualifications of the managerial and supervisory staff who would be responsible for executing the work, and any previous experience of UK construction practice;

a list of jobs over one million units of account carried out during the past five years and the value and site of each job and the authority for whom executed;

details of plant and machinery available for executing the work;

details of the labor force it is proposed to use, i.e. own or locally recruited.

Note: Companies from Belgium or Italy may submit 'certificate of inscription' in lieu of the first, second and fourth subparagraphs above.

- 9. See 2.
- 10. Tenders and all supporting documents must be priced in sterling. The contract will be based on the general conditions of government contracts for building und civil engineering works, technical specifications, drawings and bills of approximate quantities. Price fluctuations by a formula method will apply. Progress payments will be made monthly on the basis of the value of certified work done and materials delivered to site. Payments under the contract will be made in sterling.

11. 11 December 1975.

(2151/1935)