

MELBOURNE & METROPOLITAN TRAMWAYS BOARD

MELBOURNE, VIC.

SUPPLY and DELIVERY

—OF—

POINTS and CROSSINGS.

Conditions of Tendering, Contract, &c.

Contract No. 106

SEALED TENDERS, endorsed as above, are to be addressed to "The Chairman, Melbourne and Metropolitan Tramways Board," and must be delivered at the Office of the Board, 673 Bourke Street, Melbourne, Victoria, not later than ~~2 p.m.~~^{4.00 p.m.} on Thursday, *Monday 11th Oct. 1920.*

Melbourne & Metropolitan Tramways Board, Melbourne, Vic.



SUPPLY AND DELIVERY OF POINTS AND CROSSINGS

Contract No. 106

CONDITIONS OF TENDERING.

1. Tenders are to be sealed and legibly endorsed with the name of the work for which the tender is submitted and title of the contract.
2. Tenders to be addressed to the Chairman of the Melbourne & Metropolitan Tramways Board, 673 Bourke Street, Melbourne, Victoria.
3. No tender shall be received after 2 p.m. on the day named for the receipt of such tender unless there are circumstances which, in the opinion of the Board, render it desirable to do so.
4. The Board shall not be bound to accept the lowest or any tender.
5. Each tender shall be accompanied by a preliminary deposit equal to at least One per centum of the total amount of the tender.
6. The deposit with tenders shall be in the form of Cash, Bank Cheque, Fixed Deposit Receipt or Treasury Bond in favour of the Chairman of the Melbourne & Metropolitan Tramways Board.
7. All deposits, with the exception of that of the successful tenderer, shall be returned to the persons entitled thereto as soon as possible from the time when the Board shall have arrived at a decision.
8. The required deposit made by the successful tenderer shall be returned to him on his executing the Contract documents for the fulfilment of the Contract and making the required deposit thereunder. Any tender which may be received without the preliminary deposit, unless otherwise decided by the Board, will be deemed to be informal and be rejected accordingly.
9. In the event of any tenderer failing to take up his tender, complete the necessary contract documents, and proceed with contract within the time specified under the Conditions of Contract relating to the contract, or withdrawing his tender after it shall have been opened, whether such tender shall have been accepted or not, all moneys deposited on account thereof or in connection therewith shall be forfeited to the Board.
10. In submitting the tender other than by a Corporation, the full Christian name, surname, and place of residence of the tenderer must be given, or when the tender is in the name of a firm, the names in full of each member. The omission of this information will render the tender liable to be declared informal.
11. Tenderers shall send in their tender on the form of tender referring to this Contract. Any tender which does not comply with this condition will be considered informal and be absolutely rejected.

These are the Conditions of Tendering marked "A" referred to in the annexed Agreement with the Board.

Witness..... Contractor.....

MELBOURNE & METROPOLITAN TRAMWAYS BOARD,

Melbourne, Vic.

SUPPLY AND DELIVERY OF *Points and Crossings*

Contract No. *106*

FORM OF CONTRACT.

AN AGREEMENT made the _____ day of _____ 19____ of
between _____ hereinafter

and in the several documents hereto annexed referred to as "The Contractor" of the one part and the Melbourne & Metropolitan Tramways Board, hereinafter and in the several documents hereto annexed referred to as "The Board" of the other part.

1. The Contractor will execute and deliver in a thoroughly sound and workmanlike manner the material defined and shown in the Specification, signed by the Contractor in accordance in every respect with the requirements, stipulations, and conditions set out in the Conditions of Contract and Specification hereunto annexed and in accordance with the Schedule of Prices set forth in the Form of Tender signed by the said Contractor.

2. It is hereby agreed and declared that all the provisions of the said Conditions of Contract and Specification and the said Schedule of Prices shall be as binding upon the Contractor and upon the Board as if the same had been repeated herein, and shall be read as part hereof.

3. The Board shall, in a manner provided by the said Conditions of Contract, pay to the Contractor for the delivery of the said material, the sum or sums set forth in the said Tender and Schedule of Prices therein referred to or such greater or lesser sum as, according to the terms of the said Specification and Conditions of Contract, shall become payable by the Board to the Contractor.

The Contractor has paid to the Board the sum of £ _____ under Clause 5 of the said Conditions of Contract.

4. The various documents referred to and scheduled on back of Tender Form shall form part of the Contract hereby made.

SIGNED by.....
.....
in the presence of.....
.....

THE COMMON SEAL of the Melbourne & Metropolitan Tramways Board was }
hereto affixed in the presence of }

..... Member.
..... Member.
..... Secretary.

This is the document marked "F" referred to in the annexed Schedule of Documents.

Witness..... Contractor.....

Manufacture, Supply and Delivery
----- of -----

POINTS and CROSSINGS.

Contract No. 106....

SPECIFICATION

1 The work for which tenders are invited and to which this Specification refers, includes the manufacture supply and delivery of Points and Crossings, delivered on the Board's Depot at Goldble Road, Malvern.

2. The entire material to be supplied under this Contract is to be constructed and finished in a good, substantial and workmanlike manner, complete, and in accordance with this Specification, Conditions of Contract, and to the full extent and meaning of same, and to the entire satisfaction, approval and acceptance of the Chief Manager, and under the supervision and direction of such Assistant and Assistants, Inspector and Inspectors, as may be appointed by the Chief Manager for the purposes of this contract.

3. The points and Crossings are to be manufactured in accordance with the Drawings of the Contract, and the dimensions are to be closely adhered to, especially in regard to the radii of curvature.

The castings required in the Contract are as follows:-

2 Switch Points (Switch Boxes and Draw Rods not included)

1 Mate.

1 { Compound Mate and
Crossing "A"

1 Crossing "B"

DRAWINGS.

4. Drawing No. 680. Sheet No. 1. Crossings.
 Drawing No. 680. Sheet No. 2. Switch Points and Mate.

QUALITY of MATERIAL

5. The whole of the cast steel used in the manufacture of the Switch Points, Mate and Crossings, shall contain 0.8 per cent Carbon and not more than 0.07 per cent each of Phosphorous and Sulphur, and shall be of a tensile strength of not less than 35 tons per square inch with an elongation in 8 inches of 10 per cent. Two test pieces shall be taken from the blow. The test pieces to be 2 inches between gauge points and $\frac{1}{4}$ inch in diameter. The Contractor shall make all the tests required by the ^{Chief} Manager, and in the manner directed by him.

The Tongues, Tongue Pins, and all pins shall be of hard forged steel.

All Castings must be perfectly homogeneous and shall be free from all flaws, blow-holes, or other defects.

All arrises to be true and well defined.

All coring and core holes shall leave surfaces perfectly smooth and shall be made as shown in Drawings. Holes to be to the exact centres shown.

The under surfaces of Switch Points, Mate and Crossings to be made as shown on Drawings.

The upper running surfaces of Switch Points, Mate and Crossings are to be perfectly level.

The under surfaces on which the castings rest are to be parallel to the upper running surfaces.

The ends of Wings are to be perfectly square to each respective rail, the same applies to the small end of the casting.

SWITCH POINTS.

6. The Switch Points Castings shall be made to the form and dimensions shown on Drawings, Switch Boxes and Draw Rods are not included in the contract.

That portion of the switch casting wherein the tongue

works shall be machined, and where the Tongue Pin is to be, shall be White Metal bushed.

The Switch Tongues shall be made to the lengths shown on the Drawings, not more than 2 inches in total depth and not less than $\frac{1}{8}$ inch wide at toe. The Tongue shall project $\frac{1}{8}$ inch above head except at heel and toe, where it shall be flush with the head. The Tongue Pin shall be turned to 2 inch diameter and reduced where it enters the tongue and driven in a tight fit and rivitted over as shown on Drawings. The Tongue shall be planed on the underside. The sides in the grooves to be sufficiently recessed so that the faces of the tongue shall, when open to either road be flush with the face of the castings, as shown on the Drawings.

The Steps shall be of the dimensions shown in the Drawings and shall be of such thickness that the tongue shall take a bearing on them when moved to that side.

When all parts are assembled all the parts of the mechanism shall operate freely.

M A T E

7. The Mate Casting shall be made to the form and dimensions shown, and shall have all the holes accurately cored in the respective positions shown on the Drawings.

CROSSINGS.

8. The Crossings shall be made to the form and dimensions shown on Drawings.

9. The Points, Mate and Crossings must be to the curves and straight lines as shown on Drawings, and any of these found out of winding or warped in any way will be rejected.

Sample castings may be seen at the Board's Depot, Coldblo Road, Malvern.

PATTERNS.

10. All Patterns and Core Boxes for Switches, Mate and Crossings

shall belong to the Board and on completion of the Contract they shall be painted and varnished and shall be delivered at the Board's Depot Coldble Road, Malvern, and each Core Box shall be marked with its distinctive letter as shown on the Drawings.

FISHPLATES and SWITCH BOXES.

11. The Fishplates and Bolts, also the Switch Boxes and Bolts which are required for the work will be supplied by the Board's Depot, Coldble Road, Malvern, and the Contractor shall take delivery of same and cart them at his own expense, and fit them accurately on the castings as directed. All fishplates must be lettered to correspond with the job; these and the Switch Boxes shall be bolted on in their respective positions. The Draw Rod will also be bolted to the Tongue into which it must fit accurately.

The Castings shall be lettered as shown on Drawings.

All the work shall receive one coat of Red Oxide Paint before leaving the works, but no casting shall be painted until it has been inspected and passed.

PENALTIES.

12. If the Contractor fails to complete and hand over the work to the Board on the day fixed by the Contract for completion, or on such other day to which the time for completion may be extended by the ^{Chief} Manager in writing, then for every week which shall elapse between such day and the time when the works shall be completed and handed over the Contractor shall forfeit and pay to the Board by way of liquidated damages, the sum of £15-0-0. per week, and the Board may deduct such sum from any moneys in their hands due or coming due to the Contractor. The payment or deduction of such sum shall not relieve the Contractor from his obligation to complete the Works or from his other obligations and liabilities under the Contract.

DELIVERY.

13. The Contractor shall deliver and unload the points and Crossings in the Board's Depot, Coldble Road, Malvern, The Contract

MELBOURNE & METROPOLITAN TRAMWAYS BOARD

MELBOURNE

VICTORIA.

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SCHEDULE of PRICES.

POINTS and CROSSINGS.

Contract No. 106.

Tons . Cwt. . Qrs. Lbs. Price per . £ . s. d. Cwt.

Switch points.

15 2 0

Engines

etc.

5 2 0

Compound Gate and

Crossing A.

8 0 0

Crossing B.

4 2 0

Terms

Total £

Del.

Tender name and address

Witness Date 1920

This Schedule of Prices marked D referred to in annexed Agreement with the Board.

dated day of 1920

Witness Contractor