

## PROPOSAL AND CONTRACT

Proposal No. ED-3336

Date JUNE 30th, 1978.

With ESSO CHEMICAL CANADA  
(Hereinafter called the purchaser)

Address BOX 20, REDWATER, ALBERTA

### ALLIS-CHALMERS CANADA LIMITED

(hereinafter called the Company) agrees to sell and deliver to the Purchaser and the Purchaser agrees to buy and accept from the Company, the equipment described below, f.o.b. cars point of shipment.

ITEM 1 - 13'-0" X 21'-0" DRY GRINDING BALL MILL:

ONE - ONLY ALLIS-CHALMERS 13'-0" DIAMETER BY 21'-0" LONG  
DRY GRINDING BALL MILL ARRANGED FOR A 200 RPM SYNCHRONOUS  
MOTOR DRIVE THROUGH A SUITABLE RING GEAR, PINION, AND  
AIR CLUTCH. THE MILL WILL CONSIST OF CONICAL CAST  
NODULAR IRON HEADS WITH TRUNNIONS CAST INTEGRAL; ONE  
PIECE HEAVY STEEL PLATE SHELL WITH END RINGS WELDED  
INTEGRAL; MAIN BEARINGS WITH WATER-COOLED, BABBITTED  
REPLACEABLE INSERTS FOR SELF-ALIGNING SUPPORT, OIL  
LUBRICATED, AND Laterally ADJUSTABLE ON STEEL SOLE  
PLATES BY MEANS OF JACKING SCREWS; MANUALLY OPERATED  
STARTING LUBRICATOR TO FLOAT THE MILL AT START-UP;  
"LUBRIFLO" AUTOMATIC MAIN BEARING LUBRICATION SYSTEMS;  
FABRICATED FEED AND DISCHARGE TRUNNION LINERS; SPOUT  
FEEDER; SPLIT AND REVERSIBLE CAST ALLOY STEEL SINGLE  
HELICAL RING GEAR AND FORGED ALLOY STEEL PINION INTEGRAL

Subject to the specifications, prices, terms and conditions of sale described in this  
proposal, which shall be part of any contract or purchase order for the equipment.

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ITEM 1 - 13'-0" X 21'-0" DRY GRINDING BALL MILL: (CONT'D)

WITH DOUBLE EXTENDED SHAFT; TOTALLY ENCLOSED RING  
GEAR GUARD; AUTOMATIC GEAR SPRAY LUBRICATION SYSTEM;  
HEAVY-DUTY ANTI-FRICTION PINIONSHAFT BEARINGS WITH  
PILLOW BLOCKS MOUNTED ON A STEEL SOLEPLATE; PINIONSHAFT  
BEARING LUBRICATION SYSTEM; AIP CLUTCH AND CONTROLS;  
MAIN BEARING TEMPERATURE SENSORS; DISCHARGE DIAPHRAGM  
AND HOUSING; FEED END LINERS; FEED END GAS INLET HOUSING.

APPROXIMATE WEIGHT.....295,000 LBS.

NOT INCLUDED ARE:

GRINDING MEDIA

MOTOR AND CONTROLS

SHELL LINERS AND HARDWARE

FOUNDATION BOLTS

INTERCONNECTING PIPING AND CONTROLS,

UNLESS INDICATED.

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ITEM 2 - SHELL LINERS:

ONE - ONLY SET OF SHELL LINERS FOR 13'-0" X 21'-0" BALL MILL.  
LINERS WILL CONSIST OF 26 ROWS OF LORRAINE 'C' HEAT  
TREATED ROLLED STEEL WITH A PLATE THICKNESS OF 2 $\frac{1}{2}$  INCHES  
AND APPROXIMATELY 2 INCH LIFTER HEIGHT.

ALSO INCLUDED IS A COMPLETE SET OF NUTS, BOLTS, AND  
WASHERS.

APPROXIMATE WEIGHT.....<sup>110 000</sup>~~88,000~~ LBS.

ITEM 3 - ELECTRIC MOTOR:

ONE - ONLY SIEMENS - ALLIS 2000 HP, 200 RPM, O.D.P. SYNCHRONOUS  
MOTOR, 1.0 SERVICE FACTOR, 1.0 POWER FACTOR, SUITABLE  
FOR DRIVING ABOVE MILL.

APPROXIMATE WEIGHT.....37,000 LBS.