

BUDGET COMMERCIAL OFFER

to

INGENIO PICHICHI S.A.

for the design and manufacturing of

QADRI-Design Heavy Duty 40" x 78" x 4-Roll Cane Crushing Mill

Scope Of Supply

1 Off QADRI-Design Heavy Duty 40" x 78" x 4-Roll Cane Crushing Mill

manufactured to the technical parameters as described below and in attached Technical offer ;

Inclusions

- 2 Nos. Headstock
- 2 Nos. Hydraulic Top Cap (**including** ' all Internal components ' ; tested at 5000 psi)
- 4 Nos. Side Cap Asly. (**including** Mill Roll Adjustment Bolt Aslys. ; Long Bolt Aslys. to tie Side Caps with Headstocks)
- 2 Nos. Fastening Beam (to tie-up the left-hand and right-hand Headstocks at the front and rear)
- 2 Aslys. Top Bearing (All Bronze type)
- 4 Aslys. Bottom Bearing (cast steel Housing & bronze Liners ; both have independent water cooling system)
- 2 Aslys. Bearings for Underfeed (4th) Roll (cast steel Pl. Blocks & bronze Liners)
- 1 Asly. Top Roll (Lotus-type ; **including** Uni drilled Nozzles + Flanges + Juice Guards ; **without** welding/arcing of grooves)
- 1 Asly. Cane Roll (Standard-type ; **including** Juice Guards ; **without** welding / arcing of grooves)
- 1 Asly. Bagasse Roll (Lotus-type ; **including** Multi drilled Nozzles + Juice Guards ; **without** welding / arcing of grooves)
- 1 Asly. Underfeed (4th) Roll Asly. (Standard-type ; **including** Juice Guards ; **without** welding / arcing of grooves)
- 1 Asly. Trash Beam Asly. (**including** Trashplate (hard-faced))
- 1 Set Scraper Asly for Top Roll (with support & adjustment mechanism)
- 1 Set Scraper Asly for Bagasse Roll (with support & adjustment mechanism)
- 3 Nos. Mill Crown Pinions (to be mounted on the Top , Cane , Bagasse Rolls)
- 1 Set Crown Pinions for Underfeed (4th) Roll (Drive & Driven ; designed to customer's given 'Settings')
- 2 Sets Pinion Guards (for Mill Crown Pinions & Underfeed Roll Drive & Driven Crown Pinions)
- 1 Set Underfeed (4th) Roll Adjustment Bolt Aslys.
- 1 Set Lift Indicators for Mill Top Roll (Mechanical-type)
- 1 Set Foundation Bolts + Plates
- 1 Set Piping connected to the Mill for Mill Hydraulic System , Mill Lubrication System , Mill Cooling Water System
- 1 No. Discharge Chute (MS Plate fabricated according to customer's approved drawing)
- 1 Set Levelling Wedges (for two Headstocks)
- 1 Set Mill Tools (Spanners to adjust Mill and 4th Rollers , Top Cap Plug and Long Bolts of Head Stocks Asly.)

Civil Foundation Design

- Loading diagram shall be provided showing static & dynamic loading
- Our 'Scope of Work' **does not** include the physical designing/modifying of the civil foundation

Exclusions

Following items / works are **excluded** from our scope of supply ; these shall be arranged by yourself at your own cost ;

- Welding & Hard-facing of grooving of Mill Rolls and 4th Roll
- Stainless Steel Cladding of Headstocks
- Juice Collection Tray (installed below the Mill to collect juice extracted by the Mill)
- Mill Hydraulic System (hydraulic pumping station + Hydro-pneumatic Accumulators)
- Mill Lubrication System (lubricant pumping station)
- Mill Cooling Water System
- Piping for water supply to the Mill
- Cane Feeding Equipment (Prepared Cane Elevator , Donnelly Chute , Intercarrier)
- Imbibition Piping & Tanks
- Mill Service Platform
- Mill Tail bar & Coupling Boxes
- Mill Drive System (Mill-speed Controls , Mill Drive , Intermediate & Final Reduction Gearing and allied equipment)
- Level Indicators & Controls for Donnelly Chute
- Electrical & Other Controls of all kinds
- Anchoring Material other than that specified

QADRI GROUP COMPANIES

QADBROS ENGINEERING (PVT) LTD.
QADRI ENGINEERING (PVT) LTD.

QADRI BROTHERS (PVT) LTD.
QADCAST (PVT) LTD.

KASHIF TRADE HOUSE (PVT) LTD.
QADRI FOUNDRY (PVT) LTD.

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- All kinds of civil works
- Any other items which do not form an integral part of the offered 4-Roll Mill
- Any work other than that specified under ' Scope of Supply '
- All kinds of ' Mill Spares ' and ' Consumables '

MATERIAL OF MAJOR COMPONENTS

Headstock , Side Cap , Top Cap (Housings) , Fastening Beam	:	Cast Steel to AISI 1045 ; normalized
Top Cap Piston	:	Forged Steel AISI 1045
Top Cap Bush	:	Bronze LG4
Top Roll Top Half Bearing Housing	:	Bronze SAE 64
Top Roll Bottom Half Bearing	:	Bronze SAE 64
Bottom Roll Bearing Housing	:	Cast Steel to AISI 1045
Bottom Roll Bearing Liner	:	Bronze SAE 64
Underfeed (4th) Roll Plummer Block	:	Cast Steel to AISI 1045
Underfeed (4th) Roll Bearing Liner	:	Bronze SAE 64
Mill Roll & 4th Roll Shell	:	Grey Cast Iron ; Hardness 180 ~ 230 HB
Mill Roll Shaft & 4th Roll Shaft	:	Forged Steel AISI 1045 ; normalized
Trashbeam & Trashplate	:	Cast Steel to AISI 1045
Scraper (Top & Bottom Rolls)	:	Cast Steel to AISI 1045
Mill Crown Pinion & 4th Roll Pinions	:	Cast Steel to AISI 4140 ; normalized ; hardness 220 ~ 250 HB
		Tooth Profile induction hardened to 400~450 HB

PROOF ASSEMBLY

Our scope of work includes for proof-assembly (*trial-assembly*) of the offered equipment at QADBROS works . After trial-assembly , followed by inspection by customer's representative (*if required*) , the Mill will be disassembled into logical sub-aslys. and packed before dispatch from our works

OPTIONAL SCOPE OF WORK

- **Roughening and Tear Drops of Mill and 4th Rolls**
roughening (*arc welding / splatter-welding*) of groove side-walls for better grip of Mill Roll on bagasse and " Tear Drops " welding on groove tips
- **STAINLESS STEEL CLADDING of Headstock**
Stainless Steel cladding of inner-face and seating area of Bottom Bearings of Headstock

Price (CFR Buenaventura – COLOMBIA)

QADRI-design Heavy Duty 40" x 78" x 4 - Roll Cane Crushing Mill USD 550,500. per Mill

OPTIONAL SCOPE OF WORK

Roughening of Mill Rolls and 4th Roll USD 4,850. per Shell

Stainless Steel Cladding of Headstock USD 11,300. per Mill

Total Quoted Value (CFR Buenaventura – COLOMBIA) USD 581,200.

Budget Price Basis

- CFR Buenaventura - COLOMBIA (*Incoterms 2020*) ; **including** sea-worthy packing & fumigation
- quoted prices includes Sea-freight calculated at the following rates ;

40 ft. Flat Rack – Out of Gauge (3' Feet over width)	1 x Container	@ USD 7,000.	per Container
20 ft. Open Top – In Gauge	4 x Containers	@ USD 2,000.	per Container
20 ft. Standard – In Gauge	2 x Containers	@ USD 1,200.	per Container
- upon the order being ready , any increase in Sea-freight over & above the above stated rates shall be borne by you and wire transferred to our account prior to the order being shipped

Shipment

starting from the date of receipt of your Purchase Order and settlement of technical & commercial conditions , FOB Karachi shipment shall be made within **24 weeks** ; transit-time from Karachi-port to Buenaventura is approximately 55 days

Payment Terms

- 50% advance by wire transfer to our account with your Purchase Order
- 50% balance by wire transfer to our account before ex-works dispatch
- transfer charges to your account

Warranty

We shall furnish the following in writing ;

- Guarantee stating that ;**
 - the ordered equipment has been manufactured by QADBROS in accordance with drawings , technical specification , material standards specified in our offer for each respective equipment
 - our obligations , as spelt out in the purchase order , shall be fulfilled
- Mechanical & Technical Warranty stating that ;**
 - our supply will meet the specifications agreed upon and that all work as well as delivery of the ordered equipment will be carried out in a careful manner

- natural wear and tear , as well as any damage caused by non-observance of operating instructions or by use of unsuitable means of production , shall be excluded from our warranty
 - damage to our supplied equipment caused by improper handling , such as non-observance of any warnings or instructions for the operation & maintenance of supplied equipment, shall also be excluded from our warranty
- (iii) **Duration of Warranty** ;
- our supplied equipment shall be covered under our Warranty for a period of 18 months from the date of FOB-Karachi / CFR Buenaventura (*whatever shipment terms will be finalized between QADBROS & PICHICHI*) delivery of the respective item ; such Warranty shall be strictly restricted to the said 18 months irrespective of whether or not the respective equipment has been put to use
- (iv) **Extension of Warranty** ;
- in case of replacement of any part of our supplied equipment within the warranty period , or modification of our supplied equipment / part within the warranty period , the replaced or modified part / equipment will be covered under our warranty for the same length of period as that of our initial supply
 - in case the replacement or modification of any of our supplied part / equipment causes a complete or partial stoppage* in use of our other supplied part / equipment , our warranty period for those other supplied parts / equipment shall be extended for a period equal to the time of stoppage

Force Majeure

we shall not be held responsible for delays in delivery due to reasons of Force Majeure or circumstances entirely beyond our control

Validity

subject to confirmation

Kind Regards ,



Faisal Saleem
Group Head Commercial