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| Scope: | Equipment for Telsmith Mobile Crushing and Screening Plant to produce a Lump and Fines Product (Minus 32mm+8mm and Minus 8mm), or an all in fines product (Minus 8mm) |
| | Plant as per layout drawing below, Supplied, Delivered and Installed at Whyalla. |
| | Points also covered in This Quotation, including items on Monday 4th Feb 2013 |
| | 1. Circuit based on Agglow simulation titled 'Stage Two All in Fines Option B (52SBS). This includes a feeder/jaw crusher (trailer mounted), 2 x 300Hp cone crusher/triple deck screening plants (training mounted), 1 x 400Hp cone crusher (skid mounted), associated conveyors etc., 385tph maximum capacity for all in fines; |
| | 2. Australian Standards compliance only, including electrical i.e. notg Arrium/OneSteel electrical standards; |
| | 3. 20,000t stockpiling capacity for each of the lump and fines products (previous proposal had only 8,500t); |
| | 4. Metal detection and automatic plant shutdown; |
| | 5. Belt weighers x 2 (not NMI approved); |
| | 6. Product samplers x 2, likely to be cross-belt samplers (Option as below). |
| | 7. Conveyor underspeed detection; |
| | 8. Allen Bradley RS View SCADA system; (Option as below). |
| | 9. MCC in 40' shipping container with fire detection and suppression system, air lock entry; (Option as Below). |
| | 10. Control cabin mounted on MCC as per attached; |
| | 11. Rock breaker larger than existing IK unit & to suit IC feed |
| | 12. Dust suppression — water based only with intake pipe filter; |
| | 13. Assumption that power take off point is within 25m of jaw crusher; |
| | 14. Modular poly screens on top & second decks; (Side Tensioned Rubber Only). |
| | 15. 4-ply belt on conveyor that follows the jaw crusher; |
| | 16. No vertical ladders allowed. Additional stairs to be bolt-on to sides of machines where required to facilitate relocation; |
| | 17. Individual auto greasing (gas canister based); |
| | 18. Expansion chambers on gearboxes in lieu of standard breathers; |
| | 19. Supply of all cabling required including installation. Cabling & cable trays to be installed in a way that does not restrict access around the plant for clean-up/maintenance; |
| | 20. Feed material moisture nominally 5% but a maximum of 7%; this point is noted, but all calculations are based on Three (3%) Percent Moisture. |
| | 21. Feed material sizing as per the specification discussed. |
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| Exclusions: | Initial Oil Fil and all Lubricants |
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| Options: | CONSEP Iron Ore Cross-Cut Samplers (X2) |
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| | Allen Bradley RS View Control System Upgrade |
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| | This is an estimated cost as per meetings and discussions held with Peak Electrical. |
| | To allow for the installation of the Allen Bradley RS View Control System, after initial plant installation the following points will be covered; |
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| | Supply of a New Motor Control Centre (MCC Building) including all new starting controls. |
| | Hardware and Software for Allen Bradley RS View System. |
| | All Associated Field Wiring and Marshalling Boxes. |
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| | 1 x 3258 PP-VGF-EC Portable Primary Crushing Plant. |
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| Equipment to be Supplied; | |
| | 1x BX30 Hammer and Boom System Upgrade |
| | 2 x 44SBS-H-CC Portable Secondary Crushing and Screening Plant |
| | 1x 12m x 900mm Transfer Conveyors |
| | 2x 18m x 900mm Transfer Conveyor |
| | 2 x 24m x 900mm Product Transfer Conveyor |
| | 2 x 30m x 900mm Radial Stockpiling Conveyors |
| | 1 x Crusher Support Structure |
| | 1 x Telsmith 52SBS (400HP) Cone Crusher |
| | 1 x Operators Cabin and Support Structure |
| | 1 x Mains Power Distribution Box |
| | 2 x Belt Weighers |
| | Dust Suppression for the Complete Plant |
| | Metal Detector |
| | Conveyor Underspeed Detectors |
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| | 1 x New Telsmith 3258 PP-VGF-EC Portable Primary Crushing Plant consisting of: |
| | Structural steel chassis with blocking supports, and all necessary supporting |

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| | structures. |
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| Plant Description: | Quad axles and highway towing kit including axles, axle support, air brakes, |
| | wheels, tires, kingpin, mud-flaps, and lights with reflectors. |
| | Operator's platform mounted over crusher. |
| | Jaw feed chute and discharge chute. |
| | Modular/skid type feeder support with tapered loading hopper |
| | 60" x 20'-0" Vibrating Grizzly Feeder complete with a 5' long grizzly bar section with 4" openings at discharge end, and 1/2" thick abrasion resistant steel pan liner. |
| | 280 HF vibrating unit with 140 mm bearings |
| | V-belt drive and v-belt guard |
| | 50 HP inverter duty electric motor. |
| | 3258 Roller Bearing Jaw Crusher complete with, manganese steel jaw dies, hydraulic adjusting and relief system |
| | Elevated crusher drive package including: motor support bracket (off of crusher) v-belts, motor bushing, motor sheave, 200 HP 1200 RPM, 3/50/415 V TEFC motor and slide rails. |
| | Drive and flywheel guards for use with elevated drive package |
| | Standard oil lubrication system. 3 HP |
| | Lube oil immersion heater, 3kw |
| | Hydraulic power pack, 7.5 HP |
| | Hydraulic oil immersion heater, 3kw |
| | |
| | 54" x 31'-7" End Discharge Conveyor complete with V-belt and |
| | torque arm reducer drive, 20 HP, 1800 RPM, TEFC, 3/50/415 |
| | electric motor, drive guard, nip guards, idlers, 4-ply 3/16" x 1/16" |
| | conveyor belting, lagged head pulley, self-cleaning tail pulley, |
| | skirting with rubber flashing, belt scraper, backstop, and discharge |
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| Included Options: | hood. |
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| | Flop gate and grizzly bypass chute. Note: Side discharge conveyor not included. |
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| | 21" fold down leg extensions |
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| | Self-contained gas engine powered 4-point hydraulic leveling system including 6" bore hydraulic rams with 36" stroke, control valves, hoses, and mounting brackets. Plant must be blocked for operation. |
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| | Rubber side spill curtains with mounting hooks on both sides of the plant. (Note: (2) spill curtains located on each side of plant. |
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| | Bolt-on splash guard on both sides and the rear of the happer. |
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| | Panel includes support stand, starter for VGF drive with variable |
| | speed control, reduced voltage starter for crusher drive motor, |
| | starter for conveyor drive motor and controls for other plant |
| | motors. |
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| | Paint: Telsmith Gray |
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| | 1A 1x hydraulic breaker assembly mounted on plant chassis with support |
| | pedestal, MBS-12H Boom System, BX30 3000 ft./lb. class BTI breaker, |
| | and radio remote control. |
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| | 2 2x New Telsmith 44SBS-H-CC Portable Crushing and Screening Plant |
| | consisting of the following: |
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| | Quad axle structural steel chassis with blocking supports crusher |
| | discharge hopper, chutes, platforms and Beige paint. |
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| | Telsmith 6' X 20' Triple Deck Horizontal Screen with 40 HP drive, |
| | tension plate bolts and coil support springs. Top deck to crusher, |
| | second deck to crusher or cross conveyor, bottom deck to cross |
| | conveyor. (Wire Screening Media- included) |
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| | Screen media arrangement |
| | Top deck, 32mm- side tension |
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| | Bottom deck, 8mm - end tension |
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| | Telsmith 44 SBS™ Cone Crusher with 300 HP drive and air-to-oil cooling system. Crusher countershaft turned to come out side of chassis beam. |
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| | 36" Feed Conveyor complete with 20 HP torque arm reducer drive, 3-ply conveyor belting, belt scraper, and backstop. Conveyor folds down for travel, folds to side for access to cone. |
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| | 36" Discharge Conveyor complete with 15 HP torque arm reducer drive, 3-ply conveyor belting, belt scraper, and backstop. |
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| | 36" Cross Conveyor complete with 5 HP torque arm reducer drive, 3-ply conveyor belting. Conveyor reverses to clean out plant. |
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| | 48" Under Screen Conveyor complete with 10 HP torque arm reducer drive, 2-ply conveyor belting. |
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| | 2- 18" Screen Product Conveyors complete with 5 HP torque arm reducer drives, 2-ply conveyor belting. |
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| | Hydraulic leveling system including: Self-contained gas engine hydraulic power unit, control valves, Hoses, 6-point hydraulic leveling system with Run-On legs with 5" bore hydraulic rams and 24" stroke, and mounting brackets. Run on Style legs do not require the plant to be blocked for Operation. Gas power hydraulic power pack mounted on plant to operate |
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| Included Options | Leveling system. |
| | Plant mounted starters with wiring to plant motors. |
| | Extend plant lift off cables to 100' to allow for central mounting location of plant starters |
| | Air-to-oil cooling system in lieu of water cooler for cooling oil when water is not available. Includes radiator with mounting stand, 3 HP TEFC motor driven fan (starter not included), piping, hoses and valves. |
| | Anti-spin system to limit head spin at startup and when crusher is under fed. |
| | System mounts under crusher |
| | Cold weather package with double quantity of heaters for lube system and hydraulic system. |
| | Liners to be S X-Coarse |
| | Power: 3 Phase 50 Hz 415 V |
| | Paint: Astec Beige |
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| | 3 1x Factory startup supervision assistance is a part of this offer. After all equipment installation, electrical connection, and fluid fill have been completed and material is ready to be introduced to the equipment, a technician will be made available to perform a 2 to 3 days startup of this equipment. This includes a complete check of applicable hydraulic and lubrication systems, alarm operations, operational/break-in tests, startup check list completion and customer training. |
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| | 4 1x Transfer Conveyors 12m x 900mm wide; consists of the following; Manufacture (4) off conveyor nominally 12m long x 900mm wide Stringers from 250pfc Cross bracing from 75x8ea Support from 150uc Shaft mount drive gearbox and motor — 7.5kW Guards — Head drum guard, tail section guard, hopper guarding all to AS1755-2000, painted yellow Carry idlers dia114 x 35 degrees, dia 114 return idlers, belting 3 ply 5mm Top cover and 1.5mm bottom, spliced Head drum 355 dia with crowning and rubber lagging. Includes torque arm and bearings Tail drums 355 dia with crowning. Includes bearings and take up assembly Lanyard emergency stops on both sides of the conveyor Receiving hopper Grit blasted 2.5 class and painted |
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| | 5 2x Transfer Conveyors 18m x 900mm wide; consist of the following; Manufacture (1) off conveyor nominally 24m long x 900 wide |

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| Stringers from 360ub |
| Cross bracing from 75x8ea |
| Support from 150uc |
| Shaft mount drive gearbox and motor - 7.5kW |
| Head drum guard, tail section guard, hopper guarding all to AS1755-2000, painted yellow |
| Carry idlers dia114 x 35 degrees, dia 114 return idlers, belting 3 ply 5mm top cover and 1.5mm bottom, spliced |
| Head drum 355 dia with crowning and rubber lagging. Includes torque arm and bearings |
| Tail drums 355 dia with crowning. Includes bearings and take up assembly |
| Lanyard emergency stops on both sides of the conveyor |
| Receiving hopper |
| Grit blasted 2.5 class and painted |
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| 6 2x Transfer Conveyor 24m x 900mm wide |
| Manufacture (1) off conveyor nominally 24m long x 900 wide |
| Stringers from 360ub |
| Cross bracing from 75x8ea |
| Support from 150uc |
| Shaft mount drive gearbox and motor — 18kW |
| Guards - Head drum guard, tail section guard, hopper guarding all to AS1755-2000, painted yellow |
| Carry idlers dia114 x 35 degrees, dia 114 return idlers, belting 3 ply 5mm top cover and 1.5mm bottom, spliced |
| Head drum 355 dia with crowning and rubber lagging. Includes torque arm and bearings |
| Tail drums 355 dia with crowning. Includes bearings and take up assembly |
| Lanyard emergency stops on both sides of the conveyor |
| Receiving hopper |
| Grit blasted 2.5 class and painted |
| 7 2X New QMM Stacker Conveyors 30m x 900 wide, consist of the following; |
| Manufacture (3) off conveyors nominally 30m long x 900mm wide |
| Stringers from 100 x 50 ua with 50 x5 ea. bracing and 200 x 100 x 5 RHS lower chord near the supports |
| (4) Off support struts from 200 x 100 x 5 RHS |
| (1) Off main support from 200 PFC and 150 x 100 x 5 RHS |
| Shaft mount drive gearbox and motor - 22kW |
| (2) Off solid drive wheels similar in design |
| (1) Off rear support from 100 x 5 SHS and 75x 5 ea. |
| Guards — Head drum guard, tail section guard, slewing drive guard, Hopper guarding all to AS1755-2000, painted yellow |
| Carry idlers dia114 x 35 degrees, dia 114 return idlers, belting 3 ply 5mm top cover and 1.5mm bottom, spliced |
| Head drum 355 dia with crowning and rubber lagging. includes torque arm and bearings |
| Tail drums 355 dia with crowning. Includes bearings and take up assembly |
| Slewing drive motor, gearbox, chains and sprockets |
| (1) Off turntable pivot at the rear of the stackers |
| Lanyard emergency stops on both sides of the conveyor |
| Receiving hopper |
| Grit blasted 2.5 class and painted |
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| 8 1 x Operator Cabin Support Structure |
| Cabin to have air lock approximately (1) metre wide on one end of cabin |
| Cabin base & main frame to be made from angle iron & square hollow section |
| Walls to be 50mm Bondor cold room panels to outside |
| 50mm cavity with Polyester 900gsm infill |
| (2) Off layers of 32mm acoustic Barrier Board |
| (1) Off layer of 6mm melamine white sheets |
| Wall thickness - 170mm |
| Ceiling to be as per the walls |
| Floor to be 3mm steel plate to base |
| 75mm cavity with Polyester 900gsm infill |
| 50mm Bondor cold room panels |
| (1) Off layer of 32mm acoustic Barrier Board |
| (1) Off layer of 32mm MDF (custom wood) |
| Lino on the floor |
| Floor thickness to be 192mm thick |

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| Window glass will be 12.38 laminated glass (5 off windows) |
| External door to be 48mm thick & have an acoustic STC of 40 |
| Door to have RP70 & RP47 door seals fitted |
| Hardware fitted to door, to lock, open & close door |
| Internal door to be 40mm thick & have an acoustic STC of 30 |
| Door to have RP70 & RP47 door seals fitted |
| Hardware fitted to door to open & close door |
| Standard electrical wiring to cabin (1 off twin fluorescent light to main control room, (2) off twin power points & (1) off fluorescent light to air lock |
| Supply and fit (1) off UMA103G1 dust collector with an absolute filter and housing with duct work coming from the discharge side of the collector into the room keeping the room under negative pressure |
| Includes all ducting, flashing and brackets |
| (1) Off Mitsubishi split air conditioner system |
| Paint — grit blast class 2.5, two pack paint system |
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| Operator Cabin Framework |
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| (1) Off crusher feeder cabin framework |
| Nominal sizes 4612 long x 2400 wide x 2750 high |
| From 150 x 50 rhs, 90x 6 ea. 75 x5 shs |
| Roof from 5mm chequer plate |
| (4) Off frame lifting lugs |
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| Operator Cabin Support Structure |
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| (1) Off lower module from 310uc (skids), 200uc columns, 90x8ea bracing. |
| Nominal sizes 8300 long x 3200 high x 3450 wide. Contains mounts for the container. |
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| (1) Off lower module stair 600 wide to AS1657-2000. Monowills stanchions painted yellow. |
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| (1) Off upper module from 200uc columns, 90x8ea bracing. Nominal sizes 3450 wide x 2900 high x 8300 long |
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| (2) Off upper module stairs 600 wide to AS1657-2000. Monowill stanchions painted yellow. |
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| (1) Off upper module intermediary stair platform 600 wide. Monowill stanchions painted yellow, expanded metal mesh flooring. |
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| (4) off 600 wide walkways around each side of the cabin. Monowills stanchions painted yellow. Expanded metal mesh flooring. Walkways to be bolted to mainframe on (2) sides for transport purposes. |
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| (4) Quick release levelling jacks |
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| Grit blast class 2.5, two pack paint system |
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| 9 1 x Telsmith 52 SBS Cone Crusher with 2 x 200HP drives and air-to-oil cooling System. |
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| 10 1 x Support Structure (52SBS Cone Crusher) |