



THE SINGARENI COLLIERIES COMPANY LIMITED
(A GOVERNMENT COMPANY)

Ref.No.CRP/PD/10/Centrifugal pumps/

Date: 15.01.2010.

Sub: Mine dewatering Centrifugal Pumps – Vendor meet - Reg.

-:-

The details of Various capacities of Centrifugal pumps being used/required for dewatering from SCCL Mines are furnished below.

Sl. No.	ITEM DESCRIPTION
1	15HP Centrifugal Pumps (30mtr head & 250 GPM discharge) with/without mechanical accessories.
	15HP Centrifugal Pumps (45mtr head & 150 GPM discharge) with /without mechanical accessories.
2	40HP Centrifugal Bare pump (10mtr head 1500GPM)
	40HP Centrifugal Pump (18mtr head 1000GPM) with/without mechanical accessories
	40HP Centrifugal pump (38mtr head 500GPM) with/without mechanical accessories
	40HP Centrifugal pump (75mtr head 250GPM) with/without mechanical accessories
3	75HP Centrifugal pump (95mtr head & 500 GPM) with/without mechanical accessories
	75HP Centrifugal Pump (150mtr head & 250 GPM) with/without mechanical accessories
4	125HP Centrifugal pumps (48mtr head,1500GPM) with/without mechanical accessories
	125 HP Centrifugal pumps (75mtr Head,1000 GPM) with/without mechanical accessories
5	150 HP Centrifugal Pump (125mtr Head & 750 GPM Discharge) with/without mechanical accessories
6	190HP Centrifugal Pump (120mtr head 1000GPM) with/without mechanical accessories
	190HP Centrifugal Pump (150mtr head & 750 GPM) with/without mechanical accessories
	190HP Centrifugal Pump (230mtr head & 500 GPM) with/without mechanical accessories
7	190HP Centrifugal Pump (150mtr head & 750 GPM) with Mechanical Accessories suitable to handle water containing PH Value 3.
8	240HP Centrifugal Pump (150 Mtr Head 1000 GPM discharge) with/without mechanical accessories.
	240 HP Centrifugal Pump (300 Mtr head 500GPM) with/without mechanical accessories.
9	350 HP Centrifugal Pump (300mtr head 750 GPM) with/without mechanical accessories.
	350 HP Centrifugal Pump 350mtr head 620 GPM With Mechanical Accessories.
	350 HP Centrifugal Pump 420mtr head 500 GPM With Mechanical Accessories.



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SPECIFICATIONS :

1.0	Duty parameters of the pump required		
1.1	Discharge duty in cu.mtr./Hr.		
1.2	Duty Head in mtrs.		
1.3	Type Horizontal split case.		
1.4	Relative humidity Upto 100%		
1.5	Ambient temperature 50 deg. C. max.		
1.6	Nature of liquid Raw mine water		
1.7	Sp. Gravity of liquid 1.03 app.		
1.8	P.H. value of liquid 7 – 8 .		
1.9	Total suction lift 6 Mtrs. at an altitude of 300m. above sea level		
1.10	Working hours per day - 24		
1.11	Pump shall be workable within +/-15% duty point head.		
1.12	Duty rating 15 normal number of starts per hour		
1.13	Speed of the Pump -1500 rpm (Synchronous speed).		
2.0	DETAILS OF THE PUMP OFFERED (To be furnished by tenderer)		
2.1	Make		
2.2	Model		
2.3	Number of stages		
2.4	Efficiency at duty point shall be around Exact efficiency of the offered pump at duty point to be furnished by the tenderer.	:	
2.5	Brake KW at duty point (to be furnished by the tenderer)	:	
2.6	Liquid power at 85%, 90% & 95%, 100%, 105%, 110%, 115% of designed duty head (to be furnished by the tenderer)	:	
2.7	Specific energy consumption per M ³ liquid delivery at designed duty head (to be furnished by the tenderer)	:	
2.8	Dia of suction in mm Dia of delivery in mm suitable size to give optimum efficiency to be given. Expander/reducer on suction & delivery side are to be supplied by the tenderer. Standard sizes of pipes being used by SCCL are 50,100 & 150mm & 200mm NB.	:	



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2.9	Pump bearing Bearing Bronze metal bearings Size of the Bearings (Length & ID)	:	
2.9.1	DE	:	
2.9.2	NDE	:	
2.10	GD Sq. value	:	
2.11	Weight of the bare pump	:	
2.12	Dia. of the impeller	:	
2.13	Shaft size at coupling	:	
3.0	PAIR OF COUPLINGS WITH COUPLING BOLTS		
3.1	Type Flexible pin bush type Brass lined rubber buffers or Hard rubber bushes. One coupling half fixed to the pump and the second half (of motor) with bore.	:	
4.0	The Hydraulic balance valve shall be incorporated to cushion end thrust.	:	
5.0	Oil level gauge must be provided on the bearing housing at driving and non driving ends.	:	
6.0	Priming funnel with test cock to be provided.	:	
7.0	MATERIAL SPECIFICATIONS OF PUMP (Components)		
7.1	Body Cast steel, BS1504 - 161A	:	
7.2	Balance piston Bronze IS 318 Gr.II	:	
7.3	Shaft EN-8 steel,	:	
7.4	Impeller Bronze, IS 318 Gr.II:	:	
7.5	Neck ring Bronze, BS 1400 Gr. LG.2 C	:	
7.6	Bush Bronze, BS 1400 Gr. LG.2 C	:	
7.7	Gland Bronze, BS 1400 Gr. LG.2 C	:	
7.8	Sleeve Stainless steel, AISI 410	:	
7.9	Priming funnel Cast iron	:	
7.10	Flexible coupling Cast steel (The manufacturer should send the test certificate of material used)	:	
8.0	MECHANICAL ACCESSORIES MATERIAL SPECIFICATIONS		
8.1	Sluice Valve / Gate valve Class 300 API 600	:	



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8.1.1	-do-	size	:	
8.1.2	-do-	body Cast steel ASTM A216 Gr WCB	:	
8.1.3	-do-	Spindle SS AISI 410	:	
8.1.4	-do-	seating SS AISI 410	:	
8.1.5	-do-	hand wheel Cast Iron IS 210 Gr FG 200	:	
8.2	Non return valve			
8.2.1	-do-	size	:	
8.2.2	-do-	body Cast steel ASTM A216 Gr. WCB	:	
8.2.3	-do-	seating SS AISI 410	:	
8.3	Horizontal suction valve with stainer suitable for operation in Horizontal position with removable type cover		:	
8.3.1	-do-	size	:	
8.3.2	-do-	body Cast Iron IS 210 Gr. FG 200	:	
8.3.3	-do-	seating SS AISI 410	:	
8.4	Priming funnel with test cock Cast Iron IS 210 Gr. FG 200		:	
8.5	Pair of coupling (one no. fixed on the pump shaft second one of motor with pilot bore) Cast steel		:	
8.6	Bed plate (common bed plate to mount pump and motor) Mild steel fabricated.		:	
8.7	Coupling bolts One set		:	
8.8	Holding down bolts High tensile bolts one set		:	
8.9	Coupling guard Mild steel fabricated		:	
8.10	Pressure gauge with test cock One no.		:	
9.0	SCOPE OF SUPPLY:			
9.1	Pump			
9.2	Mechanical accessories as stated in 8.0 above.			



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OTHER REQUIREMENTS:			
1	The tenderers should furnish the full descriptive literature with illustrated technical catalogue and a dimensioned general arrangement drawing.		
2	The torque speed characteristic curves, head vs discharge and efficiency curves should be furnished along with the quotations. Discharge vs Absorbed HP curve & family curves also to be furnished.		
3	3 copies of operations and maintenance manual with list of spare parts should be supplied with each pump.		
4	The relevant Indian standard specifications or any other recognized National standards to which the pump offered conforms to, may be clearly stated in the tender.		
5	The motor frame size will be informed to the successful tenderer afterwards.		
6	Tenderers shall confirm to submit test certificates for valves along with the supplies. Valves should be tested for 1.6 times the working pressure for seat test for a duration of 2 minutes and 2.4 times the working pressure for body test for a duration of 10 minutes.		
7	Gland packings shall be of standard Graphite soft cotton packing.		
8	The tenderer should indicate the life cycle cost of the equipment with detailed calculation.		
9	Tenderers may furnish any additional information if they desire.		

Maximum operating head over and above the duty head (designed head) :
Material used for manufacturing the Pumps and accessories for handling water containing
PH Value 3 or less.

<u>TERMS AND CONDITIONS:</u>	
1.	The rates quoted should be F.O.R destination basis inclusive of E.D., S.T etc. In case the same are extra, the rates applicable should be mentioned clearly in the quotation.



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2.	The percentage of applicable taxes, levies etc., should be clearly mentioned in the quotation.
3.	<p>Tenders should be accompanied with Earnest Money Deposit 1% of the offer value in the shape of Crossed Demand Draft drawn in favour of "The Singareni Collieries Company Limited" payable at Kothagudem, Khammam Dist (A.P.) / Bank Guarantee which shall be valid three months beyond the offer validity period.</p> <p>Tender not accompanied by E.M.D. will be summarily rejected and there will not be any correspondence on this.</p> <p>Exemption: The firms situated in Andhra Pradesh and permanently registered as Small Scale Industries either with the Industries Department, Govt. of Andhra Pradesh or National Small Industries Corporation for the manufacture of the items tendered and the firms registered with DGS & D., Govt. undertakings are exempted from the deposit of Earnest Money Deposit (EMD). The firms claiming exemption from deposit of Earnest Money must furnish Photostat copy of the Registration Certificate. The Offers of SSI units with provisional/temporary registration will not be considered unless requisite EMD amount is deposited.</p>
4.	If the E.M.D. submitted in the shape of Bank Guarantee, the Bank Guarantee should be submitted on Non-judicial Stamp paper of 3% value of the Security to a maximum of Rs.100.00.
5.	<u>SCCL Payment Terms</u>
a.	For regular commercial orders payment against supplies will be made within 30 days from the date of receipt of material at stores of the company provided the material conforms to specification and quality. If the payment terms are other than SCCL Payment terms, 1% of landed cost will be loaded to their offer for comparison purpose.
b.	For trial orders, 70% payment will be made within 30 days from the date of receipt and acceptability of the material and balance 30% after satisfactory performance for six months.
c.	For developmental orders, 50% payment will be made within 30 days from the date of receipt and acceptability of the material against bank guarantee for 50% value and balance 50% after satisfactory performance for six months. The 50% bank guarantee would be returned after completion of warranty period.
6.	Guarantee / Warrantee: 18 months from the date of supply or 12 months from the date of commissioning whichever is earlier. Defective material is to be replaced/repaired at free of cost.
7.	Our printed enquiry form and annexures are sent herewith.
8.	In case the Tenderer stipulates other than SCCL payment terms, suitable financial loading will be done and prices will be compared.
9.	The price, taxes & duties etc. should be quoted in prescribed enclosed format "X" only. No other format will be accepted.



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10.	Tenderer should accept for SCCL's Risk Purchase Clause, Price Fall Clause, Late Delivery Penalty @ 1% per week up to a maximum of 10% and submission of performance bank guarantee for 10% of order value and the same should be mentioned clearly in the quotation.
11.	Validity of the contract should be 15 months from the date of release of order.
12.	Deliveries should be effected as per the delivery schedules given by the General Managers / consignee of the Area.
13.	Tenderer should offer prompt after sales service during warranty period and also during the life of the equipment.
14.	The Tenderer should accept for supply of 40% of ordered quantities at any time during the order validity period at the same price, terms and conditions of original order.

For Chief General Manager (Purchase).
The S.C.Co. Ltd.

Formalities to be completed for participating in the Tender through E-Procurement.

- a.) The tender will have to register/create an account in the web site www.eprocurement.gov.in. On the home page click on the link Register for on line registration.
- b.) Further it may be noted that all the bidders have to obtain Digital Certificates for participating in the tenders, the details and procedure for obtaining digital certificates is given in the above mentioned web site (click on the link Digital Signature for further action). Or contact the help desk of the site or visit web site www.aptis.gov.in.