

No SPC/RCT/Button Bits/03/2007- 2008/B-10361
Directorate of Industries,
New Administrative Building, 2nd floor,
Opp. Mantralaya,
Mumbai - 400 032.
Tel. 22023505, Fax No. 22026826
Date:- 05/03/2008

To,
M/s. Omega Engineering Works.,
46, E. C. Extension, ECIL Post,
Hyderabad – 500062 (AP)
Telefax No. 040- 27635581

Subject: - Rate Contract for the supply of Button Bits for the period from –
05/03/2008 to 30/06/2008

Reference: - This office A/L No SPC/RCT/ Button Bits /03/2007- 2008/
B-8012 ,dt.22/02/2008.

Dear Sir,

Your offer for supply of Button Bits for the purpose of rate contract has been accepted. Detailed terms & conditions, specifications of stores to be supplied and their rates/duties etc. are incorporated in the schedule attached hereto.

1. You are requested to acknowledge the receipt of this rate contract within 7 days from the date of receipt of this letter. Non -receipt of your confirmation of this rate contract within 7 days will be deemed to be your acceptance of the said rate contract with all the terms & conditions stipulated therein.
2. Any terms and conditions of your offer which are repugnant to or inconsistent with the terms and conditions of this rate contract shall be void and of no force and effect.
3. Receipt of your agreement in duplicate and security deposit in the form of Demand Draft for due performance of the rate contract is hereby acknowledged.

Yours faithfully,



Joint Director of Industries (C.S.P.O.)

SCHEDULE

No. & date of rate contract	No SPC/RCT/Buton Bits/03/2007- 2008/B-10361 Dated:- 05/03/2008
Name & Address of the firm	M/s. Omega Engineering Works., 46, E. C. Extension, ECIL Post, Hyderabad – 500062 (AP) Tele fax No. 040- 27635581
Store covered under the rate contract	Buton Bits
Area	Whole of Maharashtra
Percentage of rate contract order	100 %
Period of Rate Contract	05/03/2008 to 30/06/2008

Item No.	Description of Goods with details of specification	Rates Per No (in Rs.)
1.	<p>152 mm dia Buton Bits, suitable for DHD-160 or equivalent Hammer.</p> <p>The Buton Bit should be suitable for the Down the Hole Hammers. Type DHD-16 or its equivalent for drilling in the Hard Rock formation and over burden.</p> <p>The Bits should have the following specifications.</p> <ol style="list-style-type: none"> 1. Outer Diameter of the Buton Bits : 152mm 2. Total No. of T.C. inserts i.e. buttons should be as below- <ol style="list-style-type: none"> a. No. of Gauge Buton - 8 Min. b. No. of Frontal or Face Buttons - 10 Min. <p style="margin-left: 40px;">Total Nos. 18 Min.</p> 3. Dia. of Buttons 16 mm 4. Flush Holes:- Adequate No. of flushing holes to be provided for the effective drilling. <p>NOTE:- Necessary Sketches Drawing showing layout pattern of buttons and flushing to be submitted.</p> <ol style="list-style-type: none"> 5. Alloy steel to be used for the bit body should be case hardening EN 36C and should contain. <ol style="list-style-type: none"> i) Carbon : 0.12% to 0.18% ii) Chromium : 0.6% to 1.1% iii) Nickel : 3.0% to 3.75% 6. The bit should be heat treated to give surface hardness of 37-42 HRC on the face and 53-58 HRC on the shank. 7. Tungston Carbide used for buton should have min. 6% cobalt with grain size 2.4 micron having density 14.4 to 14.8. As per IS-4005 - 1967. The chemical combination by weight should be approximately WC-92% & CO-8% 8. H.I.P. processed TC Buttons should be used. <p><u>Manufacturer should have:-</u></p> <ol style="list-style-type: none"> a) Adequate in-house testing, facility in their quality assurance department to check critical dimensions. b) Sophisticated heat treatment plant, shot blasting in controlled 	15,000/-

	<p>environment.</p> <p>c) Ultrasonic checks to be done DPT tests to be carried out Magnaflux crack detection process is to be used to check cracks in semi finished components.</p> <p>d) Tenderers should be manufacturers of Bits having manufactured and marked 50 bits of similar type during last three years to Government Departments. List of Buyers along with performance certificate should be enclosed with tender documents.</p>	
2	<p>152-mm dia Button Bits, suitable for DHD-16 or equivalent Hammer.</p> <p>The Button Bit should be suitable for the Down the Hole Hammers. Type DHD-16 or its equivalent for drilling in the Hard Rock formation and over burden.</p> <p>The Bits should have the following specifications:-</p> <ol style="list-style-type: none"> 1. Outer Diameter of the Button Bits :- 152mm 2. Total No. of T.C. inserts i.e. buttons should be as below- <ol style="list-style-type: none"> a. No. of Gauge Button :- 8 Min. b. No. of Frontal or Face Buttons :- <u>10 Min.</u> <p style="text-align: center;">Total Nos. 18 Min.</p> 3. Dia. of Buttons :- 16 mm 4. Flush Holes: Adequate No. of flushing holes to be provided for the effective drilling. <p>NOTE:- Necessary Sketches Drawing showing layout pattern of buttons and flushing to be submitted.</p> <ol style="list-style-type: none"> 5. Alloy steel to be used for the bit body should be case hardening EN 36C and should contain <ol style="list-style-type: none"> i) Carbon : 0.12% to 0.18% ii) Chromium : 0.6% to 1.1% iii) Nickel : 3.0% to 3.75% 6. The bit should be heat treated to give surface hardness of 37-42 HRC on the face and 53-58 HRC on the shank. 7. Tungston Carbide used for button should have min. 6% cobalt with grain size 2.4 micron having density 14.4 to 14.8. As per IS-4005 - 1967. The chemical combination by weight should be approximately WC-92% & CO-8% 8. H.I.P. processed TC Buttons should be used. <p><u>Manufacturer should have:-</u></p> <ol style="list-style-type: none"> a) Adequate in-house testing, facility in their quality assurance department to check critical dimensions. b) Sophisticated heat treatment plant, shot blasting in controlled environment. c) Ultrasonic checks to be done DPT tests to be carried out Magnaflux crack detection process is to be used to check cracks in semi finished components. d) Tenderers should be manufacturers of Bits having manufactured and marked 50 bits of similar type during last three years to Government Departments. List of Buyers along with performance certificate should be enclosed with tender 	14,500/-

	documents.	
3.	<p>152 mm dia Button Bits, suitable for COP-64 or equivalent Hammer.</p> <p>The Button Bit should be suitable for the Down the Hole Hammers. Type COP-64 or its equivalent for drilling in the Hard Rock formation and over burden.</p> <p>The Bits should have the following specifications:-</p> <ol style="list-style-type: none"> 1. Outer Diameter of the Button Bits :- 152mm 2. Total No. of T.C. inserts i.e. buttons should be as below- <ol style="list-style-type: none"> a. No. of Gauge Button :- 8 Min. b. No. of Frontal or Face Buttons :- <u>10 Min.</u> Total Nos. 18 Min. 3. Dia. of Buttons :- 16 mm 4. Flush Holes: Adequate No. of flushing holes to be provided for the effective drilling. <p>NOTE:- Necessary sketches, Drawing showing layout pattern of buttons and flushing to be submitted.</p> <ol style="list-style-type: none"> 5. Alloy steel to be used for the bit body should be case hardening EN 36C and should contain- Carbon : 0.12% to 0.18% ii) Chromium : 0.6% to 1.1% iii) Nickel : 3.0% to 3.75% 6. The bit should be heat treated to give surface hardness of 37-42 HRC on the face and 53-58 HRC on the shank. 7. Tungston Carbide used for button should have min. 6% cobalt with grain size 2.4 micron having density 14.4 to 14.8. As per IS-4005 - 1967. The chemical combination by weight should be approximately WC-92% & CO-8% 8. H.I.P. processed TC Buttons should be used. <p><u>Manufacturer should have:-</u></p> <ol style="list-style-type: none"> a) Adequate in-house testing, facility in their quality assurance department to check critical dimensions. b) Sophisticated heat treatment plant, shot blasting in controlled environment. c) Ultrasonic checks to be done DPT tests to be carried out Magnaflux crack detection process is to be used to check cracks in semi finished components. d) Tenderers should be manufacturers of Bits having manufactured and marked 50 bits of similar type during last three years to Government Departments. List of Buyers along with performance certificate should be enclosed with tender documents. 	15,000/-
4.	<p>200 mm dia Button Bits, suitable for DHD-160 or equivalent Hammer.</p>	19,000/-

	<p>The Button Bit should be suitable for the Down the Hole Hammers. Type DHD-160 or its equivalent for drilling in the Hard Rock formation and over burden.</p> <p>The Bits should have the following specifications:-</p> <ol style="list-style-type: none"> 1. Outer Diameter of the Button Bits :- 200mm 2. Total No. of T.C. inserts i.e. buttons should be as below- <ol style="list-style-type: none"> a. No. of Gauge Button :- 8 Min. b. No. of frontal or face buttons :- <u>14 Min.</u> <p style="margin-left: 40px;">Total Nos. 22 Min.</p> 3. Dia. of Buttons :- 16 mm 4. Flush Holes: Adequate No. of flushing holes to be provided for the effective drilling. <p>NOTE:- Necessary sketches Drawing showing layout pattern of buttons and flushing to be submitted.</p> <ol style="list-style-type: none"> 5. Alloy steel to be used for the bit body should be case hardening EN 36C and should contain- <ul style="list-style-type: none"> Carbon : 0.12% to 0.18% ii) Chromium : 0.6% to 1.1% iii) Nickel : 3.0% to 3.75% 6. The bit should be heat treated to give surface hardness of 37-42 HRC on the face and 53-58 HRC on the shank. 7. Tungston Carbide used for button should have min. 6% cobalt with grain size 2.4 micron having density 14.4 to 14.8. As per IS-4005 - 1967. The chemical combination by weight should be approximately WC-92% & CO-8% 8. H.I.P. Processed TC Buttons should be used. <p><u>Manufacturer should have:-</u></p> <ol style="list-style-type: none"> a) Adequate in-house testing, facility in their quality assurance department to check critical dimensions. b) Sophisticated heat treatment plant, shot blasting in controlled environment. c) Ultrasonic checks to be done DPT tests to be carried out Magnaflux crack detection process is to be used to check cracks in semi finished components. d) Tenderers should be manufacturers of Bits having manufactured and marked 50 bits of similar type during last three years to Government Departments. List of Buyers along with performance certificate should be enclosed with tender documents. 	
5.	<p>200 mm dia Button Bits, suitable for DHD-16 or equivalent Hammer.</p> <p>The Button Bit should be suitable for the Down the Hole Hammers. Type DHD-16 or its equivalent for drilling in the Hard Rock formation and over burden.</p> <p>The Bits should have the following specifications:-</p> <ol style="list-style-type: none"> 1. Outer Diameter of the Button Bits :- 200 mm 2. Total No. of T.C. inserts i.e. buttons should be as below- <ol style="list-style-type: none"> a. No. of Gauge Button :- 8 Min. b. No. of Frontal or Face Buttons :- <u>14 Min.</u> 	19,000/-

	<p>NOTE:- Necessary sketches, Drawing showing layout pattern of buttons and flushing to be submitted.</p> <p>5. Alloy steel to be used for the bit body should be case hardening EN 36C and should contain-</p> <p>Carbon : 0.12% to 0.18%</p> <p>ii) Chromium : 0.6% to 1.1%</p> <p>iii) Nickel : 3.0% to 3.75%</p> <p>6. The bit should be heat treated to give surface hardness of 37-42 HRC on the face and 53-58 HRC on the shank.</p> <p>7. Tungston Carbide used for button should have min. 6% cobalt with grain size 2.4 micron having density 14.4 to 14.8. As per IS-4005 - 1967. The chemical combination by weight should be approximately WC-92% & CO-8%</p> <p>8. H.I.P. Processed TC Buttons should be used.</p> <p><u>Manufacturer should have:-</u></p> <p>a) Adequate in-house testing, facility in their quality assurance department to check critical dimensions.</p> <p>b) Sophisticated heat treatment plant, shot blasting in controlled environment.</p> <p>c) Ultrasonic checks to be done DPT tests to be carried out Magnaflux crack detection process is to be used to check cracks in semi finished components.</p> <p>d) Tenderers should be manufacturers of Bits having manufactured and marked 50 bits of similar type during last three years to Government Departments. List of Buyers along with performance certificate should be enclosed with tender documents.</p>	
7.	<p>115 mm dia Button Bits, suitable for DHD-14 or equivalent Hammer.</p> <p>The Button Bit should be suitable for the Down the Hole Hammers. Type DHD-14 or its equivalent for drilling in the Hard Rock formation and over burden.</p> <p>The Bits should have the following specifications:-</p> <p>1. Outer Diameter of the Button Bits :- 115mm</p> <p>2. Total No. of T.C. inserts i.e. buttons should be as below-</p> <p>a. No. of Gauge Button :- 8 Min.</p> <p>b. No. of Frontal or Face Buttons :- 5 Min.</p> <p style="padding-left: 40px;">Total Nos. 13 Min.</p> <p>3. Dia. of Button :- 12 mm</p> <p>4. Flush Holes: Adequate No. of flushing holes to be provided for the effective drilling.</p> <p>NOTE:- Necessary sketches Drawing showing layout pattern of buttons and flushing to be submitted.</p> <p>5. Alloy steel to be used for the bit body should be case hardening EN 36C and should contain-</p> <p>Carbon : 0.12% to 0.18%</p>	7,100/-

	<p>ii) Chromium : 0.6% to 1.1%</p> <p>iii) Nickel : 3.0% to 3.75%</p> <p>6. The bit should be heat treated to give surface hardness of 37-42 HRC on the face and 53-58 HRC on the shank.</p> <p>7. Tungston Carbide used for button should have min. 6% cobalt with grain size 2.4 micron having density 14.4 to 14.8. As per IS-4005 - 1967. The chemical combination by weight should be approximately WC-92% & CO-8%</p> <p>8. H.I.P. Processed TC Buttons should be used.</p> <p><u>Manufacturer should have:-</u></p> <p>a) Adequate in-house testing, facility in their quality assurance department to check critical dimensions.</p> <p>b) Sophisticated heat treatment plant, shot blasting in controlled environment.</p> <p>c) Ultrasonic checks to be done DPT tests to be carried out Magnaflux crack detection process is to be used to check cracks in semi finished components.</p> <p>d) Tenderers should be manufacturers of Bits having manufactured and marked 50 bits of similar type during last three years to Government Departments. List of Buyers along with performance certificate should be enclosed with tender documents.</p>	
<p>8.</p>	<p>115 mm dia Button Bits, suitable for COP-42 or equivalent Hammer.</p> <p>The Button Bit should be suitable for the Down the Hole Hammers. Type COP-42 or its equivalent for drilling in the Hard Rock formation and over burden.</p> <p>The Bits should have the following specifications:-</p> <p>1. Outer Diameter of the Button Bits :- 115 mm</p> <p>2. Total No. of T.C. inserts i.e. buttons should be as below-</p> <p>a. No. of Gauge Button :- 8 Min.</p> <p>b. No. of Frontal or Face Buttons :- <u>8 Min.</u></p> <p style="padding-left: 40px;">Total Nos. 16 Min.</p> <p>3. Dia. of Button - Gauge Button :- 14.5 mm</p> <p style="padding-left: 40px;">Face Button :- 12.7 mm</p> <p>4. Flush Holes: Adequate No. of flushing holes to be provided for the effective drilling.</p> <p>NOTE:- Necessary sketches Drawing showing layout pattern of buttons and flushing to be submitted.</p> <p>5. Alloy steel to be used for the bit body should be case hardening EN 36C and should contain-</p> <p>Carbon : 0.12% to 0.18%</p> <p>ii) Chromium : 0.6% to 1.1%</p> <p>iii) Nickel : 3.0% to 3.75%</p> <p>6. The bit should be heat treated to give surface hardness of 37-42 HRC on the face and 53-58 HRC on the shank.</p> <p>7. Tungston Carbide used for button should have min. 6% cobalt with grain size 2.4 micron having density 14.4 to 14.8. As per IS-4005 - 1967. The chemical combination by weight should be</p>	<p>7,000/-</p>

	<p>approximately WC-92% & CO-8%</p> <p>8. H.I.P. Processed TC Buttons should be used.</p> <p><u>Manufacturer should have:-</u></p> <p>a) Adequate in-house testing, facility in their quality assurance department to check critical dimensions.</p> <p>b) Sophisticated heat treatment plant, shot blasting in controlled environment.</p> <p>c) Ultrasonic checks to be done DPT tests to be carried out Magnaflux crack detection process is to be used to check cracks in semi finished components.</p> <p>d) Tenderers should be manufacturers of Bits having manufactured and marked 50 bits of similar type during last three years to Government Departments. List of Buyers along with performance certificate should be enclosed with tender documents.</p>	
9.	<p>165 mm dia Button Bits, suitable for DHD-14 or equivalent Hammer.</p> <p>The Button Bit should be suitable for the Down the Hole Hammers. Type DHD-14 or its equivalent for drilling in the Hard Rock formation and over burden.</p> <p>The Bits should have the following specifications:-</p> <ol style="list-style-type: none"> 1. Outer Diameter of the Button Bits :- 165mm 2. Total No. of T.C. inserts i.e. buttons should be as below- <ol style="list-style-type: none"> a. No. of Gauge Button :- 8 Min. b. No. of Frontal or Face Buttons :- 10 Min. <p style="margin-left: 40px;">Total Nos. 18 Min.</p> 3. Dia. of Buttons :- 12 mm 4. Flush Holes: Adequate No. of flushing holes to be provided for the effective drilling. <p>NOTE:- Necessary Sketches Drawing showing layout pattern of buttons and flushing to be submitted.</p> <ol style="list-style-type: none"> 5. Alloy steel to be used for the bit body should be case hardening EN 36C and should contain- <ul style="list-style-type: none"> Carbon : 0.12% to 0.18% ii) Chromium : 0.6% to 1.1% iii) Nickel : 3.0% to 3.75% 6. The bit should be heat treated to give surface hardness of 37-42 HRC on the face and 53-58 HRC on the shank. 7. Tungston Carbide used for button should have min. 6% cobalt with grain size 2.4 micron having density 14.4 to 14.8. As per IS-4005 - 1967. The chemical combination by weight should be approximately WC-92% & CO-8% 8. H.I.P. Processed TC Buttons should be used. <p><u>Manufacturer should have:-</u></p> <p>a) Adequate in-house testing, facility in their quality assurance department to check critical dimensions.</p> <p>b) Sophisticated heat treatment plant, shot blasting in controlled</p>	11,000/-

	<p>environment.</p> <p>c) Ultrasonic checks to be done DPT tests to be carried out Magnaflux crack detection process is to be used to check cracks in semi finished components.</p> <p>d) Tenderers should be manufacturers of Bits having manufactured and marked 50 bits of similar type during last three years to Government Departments. List of Buyers along with performance certificate should be enclosed with tender documents.</p>	
10	<p>152 mm dia Button Bits, suitable for COP-42 or equivalent Hammer.</p> <p>The Button Bit should be suitable for the Down the Hole Hammers. Type COP-42 or its equivalent for drilling in the Hard Rock formation and over burden.</p> <p>The Bits should have the following specifications:-</p> <ol style="list-style-type: none"> 1. Outer Diameter of the Button Bits :- 152mm 2. Total No. of T.C. inserts i.e. buttons should be as below- <ol style="list-style-type: none"> a. No. of Gauge Button :- 8 Min. b. No. of Frontal or Face Buttons :- <u>10 Min.</u> Total Nos. 18 Min. 3. Dia. of Buttons :- 16 mm 4. Flush Holes: Adequate No. of flushing holes to be provided for the effective drilling. <p>NOTE:- Necessary Sketches Drawing showing layout pattern of buttons and flushing to be submitted.</p> <ol style="list-style-type: none"> 5. Alloy steel to be used for the bit body should be case hardening EN 36C and should contain- <ul style="list-style-type: none"> Carbon : 0.12% to 0.18% ii) Chromium : 0.6% to 1.1% iii) Nickel : 3.0% to 3.75% 6. The bit should be heat treated to give surface hardness of 37-42 HRC on the face and 53-58 HRC on the shank. 7. Tungston Carbide used for button should have min. 6% cobalt with grain size 2.4 micron having density 14.4 to 14.8. As per IS-4005 - 1967. The chemical combination by weight should be approximately WC-92% & CO-8% 8. H.I.P. Processed TC Buttons should be used. <p><u>Manufacturer should have:-</u></p> <ol style="list-style-type: none"> a) Adequate in-house testing, facility in their quality assurance department to check critical dimensions. b) Sophisticated heat treatment plant, shot blasting in controlled environment. c) Ultrasonic checks to be done DPT tests to be carried out Magnaflux crack detection process is to be used to check cracks in semi finished components. d) Tenderers should be manufacturers of Bits having manufactured and marked 50 bits of similar type during last three years to Government Departments. List of Buyers along with performance 	11,000/-

	certificate should be enclosed with tender documents.	
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1. Rates :- F. D. Destination in Maharashtra.
2. VAT :- Inclusive.
3. Octroi: - Nil against octroi exemption certificate . If octroi exemption certificate can not given the octroi will be borne by the consignee.
4. Excise Duty :- Inclusive
5. Packing :-Packing should be standard and acceptance to railway Authority and Govt. Insurance fund. (packaging, forwarding and insurance charges inclusive)
6. Force Majeure clause is not applicable.
7. Delivery Period: - Six Weeks from date of receipt of the confirmed order.
8. Inspection: By DGS&D/RITES.
9. Payment: 90% payment within 15 days from the date of receipt of stores and balance 10% within 30 days from the date of receipt of stores in satisfactory condition as ordered.
10. Mode of Transport :- Material to be dispatched duly. insured either by Road/Railway (Goods/passenger Train whichever reaches fast and cheep)
11. This rate contract is meant for whole of Maharashtra.
12. Terms : All General Terms and Conditions will also be applicable as per rate Contract
13. Rate contract holder should submit monthly statement of orders received and executed to this office by 10th of every month without fail. The Indenting Officers of Govt. Department shall place orders with the firms and should send copies thereof to this office.
14. Consignees should intimate complaints if any within six months from the date of receipt of stores.
15. No. price escalation will be allowed .
16. Warranty Period - One Year from the date of supply.
17. The delay in supply should be worked out as per provision in "Manual of office procedure for purchase of stores vide G.R. dt.21-02-1978" and penalty calculated should be deducted from the bill before payment.



Joint Director of Industries (C.S.P.O.)