

### **Example**

There are 3 bidders, X, Y and Z for the tender who are qualified to bid.

During study of the existing BHEL Product,

Bidder X requests the following modifications

Replace BHEL component BM1 with his component XM1, BM2 with XM2

Add a component XA1

Bidder Y requests the following modifications

Replace BHEL component BM1 with his component YM1, BM3 with YM2, BM4 with YM3

Add a component YA1

Bidder Z informs that it doesn't envisage any modification.

Once the discussions are frozen and the **proposed changes accepted by BHEL**, BHEL informs the **Details and Estimated Price** of the components BM1, BM2, BM3 and BM4 to all the bidders.

SLNO	Component	BHEL Drg No	BHEL Mat Code	Estimated Price
Mill Type : 623 XRP				
1	BM1	161162....	BA975...	
2	BM2	261162....	BA975...	
3	BM3	161162....	BA975...	
4	BM4	361162....	BA975...	
Mill Type : 663 XRP				
1	BM1			
2	BM2			
3	BM3			
4	BM4			
Mill Type : ### XRP				
	BM1	1611...	BA975...	25,000
	BM2	3611...	BA975...	1,15,000
	BM3	0611...	BA975...	1,50,000
	BM4	2611...	BA975...	4,00,000

On receipt of this information, the bidders must study the relevant details and then submit their bid.

**ANNEXURE – I**  
**Estimated Annual Requirement**

SL No	Material Code (Grinding Roll)	Type of Roll	Mill Type	No of Sets main (TM)	No Sets Spares (TS)	No of Sets main as Fraction of Total TM / (T1+T2)	No of Sets Spares as Fraction of Total TS / (T1+T2)
1	BA9735013010	Grinding rolls + B R Segments 28"	623 XRP	6	12	0.0308	0.0615
2	BA9735013118	Grinding rolls + B R Segments 29"	663 XRP		10	0.0000	0.0513
3	BA9735013215	Grinding rolls + B R Segments 32"	703 XRP		15	0.0000	0.0769
4	BA9735013312	Grinding rolls + B R Segments 42"	703 HP		5	0.0000	0.0256
5	BA9735013410	Grinding rolls + B R Segments 37"	803 XRP / 803 HHP	35	21	0.1795	0.1077
6	BA9735013517	Grinding rolls + B R Segments 46"	803 HP	20		0.1026	0.0000
7	BA9735013614	Grinding rolls + B R Segments 43"	883 XRP/ 943 XRP	41	30	0.2103	0.1538
<b>Total</b>				T1= 102	T2= 93	0.5231	0.4769

**NOTE:**

1. The Number of sets mentioned above is tentative and it may vary from the actual requirements.
2.  $T1 = \Sigma (TM)$  and  $T2 = \Sigma (TS)$

**ANNEXURE – II**  
**PRICE BID - PART-A**

**Bidder - X**

Mill Type	Item Sl No	Item Description	Supplier ref. Drawing No.	Supplier ref Code (if any)	Type of Change	Cost of change (To BHEL)		
						Material Cost	Assembly Cost	Total
### XRP	01	XM1	\$\$\$\$	AB123	Replacement of BM1	80,000	10,000	90,000
	02	XM2	\$\$\$\$	AB456	Replacement of BM2	2,25,000	0	2,25,000
	03	XA1	\$\$\$\$	AB789	Addition	35,000	5,000	40,000
	04	BM3	0611...	BA975...	BHEL Component Our scope	72,000	0.0	72,000
	05	BM4	2611...	BA975...	BHEL Scope	4,00,000	0.0	4,00,000
<b>TOTAL FOR ### XRP</b>								8,27,000

**Bidder - Y**

Mill Type	Item Sl No	Item Description	Supplier ref. Drawing No.	Supplier ref Code (if any)	Type of Change	Cost of change (To BHEL)		
						Material Cost	Assembly Cost	Total
### XRP	01	YM1	\$\$\$\$	YB123	Replacement of BM1	50,000	20,000	70,000
	02	YM2	\$\$\$\$	YB456	Replacement of BM3	80,000	0	80,000
	03	YM3	\$\$\$\$	YB789	Replacement of BM4	6,25,000	0	6,25,000
	04	YA1	0611...	YB135	Addition	1,00,000	9,000	1,09,000
	05	BM2	3611...	BA975...	BHEL Scope	1,15,000	0	1,15,000
<b>TOTAL FOR ### XRP</b>								9,99,000

**Bidder - Z**

Mill Type	Item Sl No	Item Description	Supplier ref. Drawing No.	Supplier ref Code (if any)	Type of Change	Cost of change (To BHEL)		
						Material Cost	Assembly Cost	Total
### XRP	01	BM1	1611...	BA975...	BHEL Scope	25,000	0	25,000
	02	BM2	3611...	BA975...	BHEL Component Our scope	60,000	0	60,000
	03	BM3	0611...	BA975...	BHEL Scope	1,50,000	0	1,50,000
	04	BM4	2611...	BA975...	BHEL Scope	4,00,000	0	4,00,000
<b>TOTAL FOR ### XRP</b>								6,35,000

**ANNEXURE – II**  
**PRICE BID - PART-B**  
**STANDARD WEAR ELEMENTS**

**Bidder - X**

Var No.	Mill Type	Item Description	Drawing No.	Matl. Code	Price
01.	623 XRP	Grinding rolls 28"	16106200253	BA9735011018	
02.	623 XRP	Bull ring segment set	16116201261	BA9735011026	
N	### XRP	Grinding rolls	161	BA9735011 @ @ @	3,50,000
N	### XRP	Bull ring segment set	161	BA9735011 @ @ @	4,25,000

**Bidder - Y**

Var No.	Mill Type	Item Description	Drawing No.	Matl. Code	Price
01.	623 XRP	Grinding rolls 28"	16106200253	BA9735011018	
02.	623 XRP	Bull ring segment set	16116201261	BA9735011026	
N	### XRP	Grinding rolls	161	BA9735011 @ @ @	3,00,000
N	### XRP	Bull ring segment set	161	BA9735011 @ @ @	4,00,000

**Bidder - Z**

Var No.	Mill Type	Item Description	Drawing No.	Matl. Code	Price
01.	623 XRP	Grinding rolls 28"	16106200253	BA9735011018	
02.	623 XRP	Bull ring segment set	16116201261	BA9735011026	
N	### XRP	Grinding rolls	161	BA9735011 @ @ @	3,25,000
N	### XRP	Bull ring segment set	161	BA9735011 @ @ @	4,50,000

**ANNEXURE – II**  
**PRICE BID PART- C**  
**CONSOLIDATED PRICES**

**Bidder - X**

SL No	Material Code	Type of Roll	Cost of Grinding Roll Per piece (GR)	Cost of bull Ring Segment per set (BR)	Cost of Main Wear Elements GB = 3 x (GR)+(BR)	Modified Additional Component Cost <sup>(1)</sup> Per Mill Qty (MOD) from II(part A)	Total Cost to BHEL  PC = 3 x (GR)+(BR)+(MOD)
1	BA9735013010 BA9735013037	Grinding rolls + B R Segments 28"					
2	BA9735013118 BA9735013134	Grinding rolls + B R Segments 29"					
N		Grinding rolls + B R Segments	3,50,000	4,25,000	14,75,000	8,27,000	23,02,000

**Bidder - Y**

SL No	Material Code	Type of Roll	Cost of Grinding Roll Per piece (GR)	Cost of bull Ring Segment per set (BR)	Cost of Main Wear Elements GB = 3 x (GR)+(BR)	Modified Additional Component Cost <sup>(1)</sup> Per Mill Qty (MOD) from II(part A)	Total Cost to BHEL  PC = 3 x (GR)+(BR)+(MOD)
1	BA9735013010 BA9735013037	Grinding rolls + B R Segments 28"					
2	BA9735013118 BA9735013134	Grinding rolls + B R Segments 29"					
N		Grinding rolls + B R Segments	3,00,000	4,00,000	13,00,000	9,99,000	22,99,000

**Bidder - Z**

SL No	Material Code	Type of Roll	Cost of Grinding Roll Per piece (GR)	Cost of bull Ring Segment per set (BR)	Cost of Main Wear Elements GB = 3 x (GR)+(BR)	Modified Additional Component Cost <sup>(1)</sup> Per Mill Qty (MOD) from II(part A)	Total Cost to BHEL  PC = 3 x (GR)+(BR)+(MOD)
1	BA9735013010 BA9735013037	Grinding rolls + B R Segments 28"					
2	BA9735013118 BA9735013134	Grinding rolls + B R Segments 29"					
N		Grinding rolls + B R Segments	3,25,000	4,50,000	14,25,000	6,35,000	20,60,000

**ANNEXURE – III**  
**PRICE CALCULATIONS FORMAT**

Sample for ‘X’

Sl No	Material Code		Type of Purchase	Weightage Factor (A)	Total Cost to BHEL (Total package) (PC) from Annex II part (C)	Total Cost to BHEL (Main Wear Elements only) (GB) from Annex II part (C)	Weighted Price of Modifications (W) = (A) x (GB) or (W) = (A) x (PC)
<b>1</b>	BA9735013010	Grinding rolls +	<b>Main</b>	0.0308			
2	BA9735013037	B R Segments 28”	Spares	0.0615			
		Grinding rolls + B R Segments	Main	0.0815	23,02,000		1,87,613
		type ‘###’	Spares	0.0596		14,75,000	87,910