

Attachment#1PR DOCS – MAIN – 1900141430 – FRAME WORK AGREEMENT– STUD WITH NUTS.pdf

**BHARAT HEAVY ELECTRICALS LIMITED**

RAMACHANDRAPURAM, HYDERABAD-32

PROJECT ENGINEERING & SYSTEMS DIVISION

**PRICE BID FORMAT
STUD WITH TWO NUTS**

BHEL's Enquiry No & Date : Bidder to Specify
 Bidder's Name : Bidder to Specify
 Bidder's Offer No & Date : Bidder to Specify
 Bidder's Ref No & Date : Bidder to Specify

SI No	Item Description	Package Weight (Kg)	Unit Price per Kg (Rs.)
1	STUD WITH TWO NUTS FRAME WORK PACKAGE	19299.0	

NOTES:

1. Vendor to Quote **Unit Price Per Kg (Rs)**. for the Total Package.
2. The Frame work is for total weight as indicated in the above table, the individual line item quantities may vary based on requirement.
3. **Unit price quoted by the bidder in the price bid format / finalized during the reverse auction process, shall be binding on the vendor till successful execution of the order and after taking care of PVC as applicable.**
4. The distribution of the line items across the projects is attached as Annexure-A.
5. The permissible ordering limits (+/- 50 %) as specified in NIT are strictly applicable on the Total Framework Value. The same are not applicable at the Individual Project level.
6. Final details of quantity, Project/ Customer shall be informed while placing purchase order.
7. No Observations / Objections shall be entertained after the Techno-Commercial Bid is opened.
8. The Bid Evaluation is on Overall L1 Basis. Each and Every item of the Package shall be quoted by the bidder.
9. Partial offers will not be considered for evaluation and the same are liable for rejection.
10. Gross Weight of the package as given above in the price bid format is arrived at by considering the unit weights of the individual items as per the applicable standards. These unit weights shall be binding on the successful bidder to arrive at the final weight of the package that is supplied.
11. The Unit price per kg. quoted shall be INCLUSIVE of Freight, Packing & Forwarding and Testing Charges.
12. The Unit price per kg quoted shall be EXCLUSIVE of GST, Third party inspection (TPI) & Insurance Charges.
13. Bidder shall confirm submission of the unpriced bid as part of their technical offer by typing "QUOTED" in the above format.

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**BILL OF MATERIAL FOR FRAME WORK
STUD WITH TWO NUTS**

Sl.No	MATERIAL CODE	DESCRIPTION	Wt (Kg/m)	Quantity (No.s)	Total Weight (Kgs)
1	PY9752070027	STUD WITH TWO NUTS M12X80	0.16	1810	290
2	PY9752070078	STUD WITH TWO NUTS M16X90	0.2	45625	9125
3	PY9752070086	STUD WITH TWO NUTS M16X100	0.24	6200	1488
4	PY9752070124	STUD WITH TWO NUTS M16X150	0.28	5640	1579
5	PY9752070230	STUD WITH TWO NUTS M20X110	0.39	3600	1404
6	PY9752070248	STUD WITH TWO NUTS M20X120	0.41	1700	697
7	PY9752070302	STUD WITH TWO NUTS M20X180	0.52	400	208
8	PY9752070507	STUD WITH TWO NUTS M24X120	0.6	200	120
9	PY9752070841	STUD WITH TWO NUTS M14X70	0.41	6100	2501
10	PY9752070892	STUD WITH TWO NUTS M16X75	0.17	2900	493
11	PY9752070922	STUD WITH TWO NUTS M14X80	0.41	3400	1394
				Total Wt.	19299.0

Note:

1. The above is the indicative list of items that are planned to be ordered.
2. The above list is not exhaustive. It shall be binding on the successful bidder, to accept any change in Size and length. Actual BOQ shall be as per the Individual Project Purchase order.
3. The Project Purchase Order Price shall be derived based on the Total Weight of the Project Purchase Order and the Unit Rate finalized for the Framework Agreement (+ PVC).
4. The Unit Weights furnished above, shall be binding on the successful bidder. Any deviations/observations on unit weight of the above mentioned items to be brought up during Pre bid Queries only.

Note No. #1

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DISTRIBUTION OF FRAMEWORK ITEMS ACROSS PROJECTS IN KGS

ANNEXURE-A

ITEM: STUD WITH TWO NUTS

PR NO 1900141430

SL NO	Material No	Material Desc	KOTHAGUDEM	BHADRAORI	NORTH KARANPURA	BARH-1	BARH-2	MAUDA	BIRCL NABINAGAR	WPGCL NABINAGAR	RAMAGUNDAM	KORBA	NSPCL BILLAI	TUTICORIN	UDANGUDI	SAGARDIGHI	BHUSAVAL	YADADRI	PATRATU	PANKI
1.00	PI9752070027	STUD WITH TWO NUTS M12X80	358	362	521	360	307	361	521	521	521	521	361	358	4695	2036	1309	1400	2771	2008
2.00	PI9752070078	STUD WITH TWO NUTS M16X90																		
3.00	PI9752070086	STUD WITH TWO NUTS M16X100																		
4.00	PI9752070124	STUD WITH TWO NUTS M16X150																		
5.00	PI9752070230	STUD WITH TWO NUTS M20X110																		
6.00	PI9752070248	STUD WITH TWO NUTS M20X120																		
7.00	PI9752070302	STUD WITH TWO NUTS M20X180																		
8.00	PI9752070507	STUD WITH TWO NUTS M24X120																		
9.00	PI9752070841	STUD WITH TWO NUTS M14X70																		
10.00	PI9752070892	STUD WITH TWO NUTS M16X75																		
11.00	PI9752070922	STUD WITH TWO NUTS M14X80																		

1.The above list of Weight per project in kgs , project/customer is tentative only. Final details of quantity, Project/ Customer shall be informed at the time of PO

Attachment #1 PR DOCS – MAIN – 1900141430 – FRAME WORK AGREEMENT – STUD WITH NUTS.pdf
BULK PROCUREMENT OF GENERIC PIPING ITEMS
Pre-Qualification Criteria (Technical)

Package Name : STUD WITH TWO NUTS FRAME WORK
PR No : 1900141430

Manufacturers of **STUD WITH NUTS**, qualified as per the Pre-qualification criteria laid down below, are allowed to bid. Documentary evidence shall be provided by such bidders to establish their claim. **However, offer consideration is subjected to approval from end Customer.**

The bid evaluation shall be on Overall L1 basis. The Bidder shall meet the Pre-Qualification Criteria (listed below).

Non-compliance to any of the criteria listed below will lead to disqualification of bidder for the subject item of the tender.

Qualification Criteria of the Bidder:

1. The bidder should be an established manufacturer of **Stud with nuts** and should have successfully completed Manufacture, Supply of **Stud with nuts**.
2. The Bidder should have successfully completed supply of **Stud with nuts** for similar specification with a total minimum quantity of **4.7 Tons , size upto M24** ,through a single Purchase Order or multiple Purchase Orders in the last 5 years ending on original due date of this tender, with at least one order executed after 01.01.2019.
3. Detailed BOQ of the items supplied, satisfying the criteria laid down above, shall be provided in the format enclosed as Annexure-1, with details like Project & Customer, Description & Quantity of Items supplied, PO details etc. as a minimum for assessing pre-qualification. **PO Copies, Inspection Reports and Dispatch documents shall be enclosed for the references provided.**
4. The bidder should not have been under suspension for business or blacklisted by any of the BHEL units.

Note No. #1

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Annexure-1 PQC Criteria**Supply References for the Last 5 Years (dispatch date) from the Original due date of this tender**

Enquiry Item No & Description: (To be filled by Bidder)

Sl No	Project Name along with name of Customer	Description Item(s) supplied	Purchase Order No & Date (Copy to be enclosed)	Delivery Date as per Order	Value of Order	Inspection Reports / Dispatch Documents (Copy to be enclosed)	Remarks

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Bulk Procurement of STUD WITH TWO NUTS

Price Variation Formula –Stud with two nuts

PVC-AS-STD2NUT

$$PO = PA \times \left(\left[0.60 \times \frac{MO}{MA} \right] + \left[0.15 \times \frac{FO}{FA} \right] + \left[0.10 \times \frac{LO}{LA} \right] + 0.15 \right)$$

PO	Purchase Order Value, adjusted in accordance with above Price Variation Formula
PA	Purchase Order Value, as per Original Framework Agreement Price

Escalation for Raw Material:

MO	JPC Retail Market Price of “PIG IRON”, as on the date of respective Project PO Placement, <i>calculated as an Average of the Prices for Kolkata, Delhi, Mumbai, Chennai regions.</i>
MA	JPC Retail Market Price for “PIG IRON”, as on the date of Part-1 bid opening of Framework Agreement Tender, <i>calculated as an Average of the Prices for Kolkata, Delhi, Mumbai, Chennai regions.</i>
As published under the Item “ PIG IRON ” by Joint Plant Committee, Ministry of Steel, Govt of India, in their subscription based bimonthly publication “JPC MARKET PRICE RETAIL”.	

Escalation for Fuel & Power:

FO	Wholesale Price Index for “Fuel & Power”, as on the date of respective Project PO Placement
FA	Wholesale Price Index for “Fuel & Power”, as on the date of Part-1 bid opening of Framework Agreement Tender
As published under the Index “ II Fuel & Power ” by Office of the Economic Adviser, Ministry of Commerce and Industry, Govt of India, on their website www.eaindustry.nic.in	


Escalation for Labour:

LO	All-India Average Consumer Price Index Number for Industrial Workers (Base_2016=100), as on date of respective Project PO Placement
LA	All-India Average Consumer Price Index Number for Industrial Workers (Base_2016=100), as on the date of Part-1 bid opening of Framework Agreement Tender
As published by Labour Bureau, Ministry of Labour and Employment, Govt of India, on their website www.labourbureau.gov.in	

Overheads and Margin:

0.15	Constant for Overheads and Margin
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NOTE: Latest Index Values, as published by respective agencies, **Available as on the date** of Part-1 bid opening of FA Tender / date of PO, shall be considered, for all the factors.

Attachment#1	PR DOCS – MAIN – 1900141436 – FRAME WORK AGREEMENT- STUD WITH NUTS.pdf
Form No:	 BHARAT HEAVY ELECTRICALS LIMITED PROJECT ENGINEERING & SYSTEMS DIVISION TECHNICAL SPECIFICATION CS STUD WITH TWO NUTS (M12-M27)
	PY 52 070 Rev. No. 01 Page 1 of 1

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STUD WITH TWO NUTS (M12 – M27) STEEL

1.0 DESIGNATION:

A stud with two nuts of threaded size 20 mm, pitch 2.5 mm, length 100 mm and made of steel shall be designated as

- i) Material Specification Column : PY52070
- ii) Description Column : STUD WITH TWO NUTS M20X100

2.0 MATERIAL:

STUD : Low alloy steel (ASTM A193 M B7)

NUTS : Low carbon steel (ASTM A194 M 2H)

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

3.1 Dimensions and tolerances as per IS 14962 Part 1-2001 (ISO 965-1-1998) (Studs & Nuts). and IS 1364, Part 3-2002 (For Nuts)

3.2 Threads:

Tolerance grade for stud – 6g

Tolerance grade for nuts – 6H

3.3 Heat treatment:

Hardened and Tempered.

3.4 Protective Coating:

Black oxidised.

4.0 INSPECTION:

The stud with two nuts shall be inspected at supplier's works by BHEL Inspector or Third party inspector.

5.0 TEST CERTIFICATES:

Three copies of test certificates of (i) chemical composition, (ii) mechanical test shall be furnished. The test certificates shall be signed by Third Party Inspectors.





6.0 NOTE:

6.1 Studs to this standard would be unplated. User departments wishing to have them plated, would mention the same in the indents.

6.2 For stud with two nuts (M30-M70) refer to standard PY52071 latest revision.

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RECORD OF REVISIONS:


Rev No	Date	Revision Detail	Revised by	Approved by
00	30.05.2015	FIRST ISSUE	 CH MANOJ	 SRIKANTH G
01	20.09.2018	VARIANT TABLE EXCLUDED	 U PRADEEP	 SRIKANTH G

Refer Doc	LAYOUTS & PIPING ENGINEERING PROJECT ENGINEERING & SYSTEMS DIVISION	PREPARED	CHECKED	APPROVED	DATE
		U. PRADEEP	CH. MANOJ	G. SRIKANTH	30.05.15

Note No. #1


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 PROJECT ENGINEERING & SYSTEM DIVISION	STANDARD MANUFACTURING QUALITY PLAN						QP. NO.: PESD/QA/FASTENER/01/18-19							
	PRODUCT: FASTENER						BHEL SPEC: AS PER P.O		REV NO: 00		DATE: 23-02-2019			
									PAGE 1 OF 3					
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY P W V				REMARKS

1.0 BOUGHT OUT ITEMS													
1.1	FASTENERS	Material batch identification, dimensions and GO & NO-GO check	Major	Visual, dimensional, GO & NO-GO check	Sampling plan IS 1367 : Part 17 (AQL=1, LQ10 = 12, sample size = 32, Ac = 1)	BHEL specification or IS Standard IS 1367 : Part 17	BHEL specification or IS Standard IS 1367 : Part 17	MTC and inspection reports	√	2	2	--	Inspection shall be carried out by main supplier.
2.0 FINAL INSPECTION & TESTING													
2.1	FASTENERS	Visual, Dimensions, GO & NO-GO check	Major	Visual, dimensional, GO & NO-GO check	Sampling plan IS 1367 : Part 17 (AQL=0.65, LQ10 = 25, sample size = 8, Ac = 0)	BHEL Specification /BOQ/ IS Standard	BHEL Specification /BOQ/ IS Standard	Inspection reports	√	2	1	--	
2.2		Chemical & Mechanical Properties, Impact test and Heat Treatment (heat treatment if applicable)	Major	TC Review	One sample per Lot			MTC	√	2	--	1	
LEGEND: P: PERFORM, W: WITNESS, V: TC REVIEW. INDICATE 1 FOR BHEL CQS /BHEL NOMINATED INSPECTION AGENCY/END USER & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.					APPROVED BY  BHEL QA SIGNATURE & STAMP			APPROVED BY -NA- CUSTOMER'S SIGNATURE & STAMP (if applicable)					

Note No. #1

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 PROJECT ENGINEERING & SYSTEM DIVISION		STANDARD MANUFACTURING QUALITY PLAN					QP. NO.: PESD/QA/ FASTENER/01/18-19							
		PRODUCT: FASTENER					BHEL SPEC: AS PER P.O					REV NO: 00	DATE: 23-02-2019	
												PAGE 2 OF 3		
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY P W V				REMARKS
2.3		PMI#	Major	PMI test	Random			IR/TC	√	2	1	1	# If applicable 10 sets shall be witnessed randomly by "1"	
2.4		Galvanization* (mass of zinc coating Thickness of Coating, embrittlement, adherence, finish appearance, etc)	Major	Measurement	As per specification			IR/TC	√	2	-	1		
2.5		BOM Check	Major	Visual	100%			Inspection reports	√	2	1	--		
3.0 PRESERVATION & PACKING														
3.1	FASTENERS	Packing# and markings	Major	Visual	Random	BHEL Specification	BHEL Specification	Packing List	√	2	1			

LEGEND: P: PERFORM, W: WITNESS, V: TC REVIEW. INDICATE 1 FOR BHEL CQS /BHEL NOMINATED INSPECTION AGENCY/END USER & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.

APPROVED BY



BHEL QA SIGNATURE & STAMP


APPROVED BY

-NA-

CUSTOMER'S SIGNATURE & STAMP
(if applicable)

Note No. #1

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 PROJECT ENGINEERING & SYSTEM DIVISION		STANDARD MANUFACTURING QUALITY PLAN				QP. NO.: PESD/QA/FASTENER/01/18-19							
		PRODUCT: FASTENER BHEL SPEC: AS PER P.O				REV NO: 00		DATE: 23-02-2019					
						PAGE 3 OF 3							
SL NO	COMPONENTS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY P W V			REMARKS

Notes:-

1. This Standard MQP should be read along with specification (Latest revision as per PO), approved drawings & approved datasheet.
2. Drawing/datasheet shall prevail over quality plan for contradiction if any.
3. Any project/customer specific requirements which shall be notified have to be fulfilled by the vendor at the time of execution of order.
4. **NACE requirement:** For items coming under **NACE category**, all tests, reports, MTC and certificates shall be submitted as per **NACE MR0103** requirements.

Abbreviations:-

MTC	-	Material Test certificate	TC	-	Test Certificate
NDE	-	Non Destructive Examination	CS	-	Carbon Steel
PMI	-	Positive Material Identification			
SS	-	Stainless Steel			
IR	-	Inspection Report			

LEGEND: P: PERFORM, W: WITNESS, V: TC REVIEW. INDICATE 1 FOR BHEL CQS /BHEL NOMINATED INSPECTION AGENCY/END USER & 2 FOR VENDOR/SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT /CHARACTERISTIC UNDER P, W & V COLUMNS. * FOR ITEMS MARKED ✓ (TICK) IN COLUMN 'D', TEST CERTIFICATES SHALL BE SUBMITTED TO BHEL FOR RECORDS.	APPROVED BY  BHEL QA SIGNATURE & STAMP	APPROVED BY -NA- CUSTOMER'S SIGNATURE & STAMP (if applicable)
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