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|                                                                                     |      |                                                                                                                           |         |                                                    |                                                                                 |                                                 |                                                                    |  |
|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|--|
|  |      | PROJECT : PANKI ( 1X660 MW )<br>SUB-PACKAGE: FDRS PACKAGE<br>SUPPLIER: BHEL PESD -HYDERABAD<br>CONT. NO.:14A14-SPC-G-0001 |         |                                                    | INDICATIVE LIST OF ITEMS REQUIRING<br>QUALITY PLAN AND SUB-SUPPLIER<br>APPROVAL |                                                 | DOC. No. :<br>Revision No. : 00<br>DATE: 23.07.2019<br>PAGE 1 OF 7 |  |
| SL.NO.                                                                              | ITEM | Q/PINS<br>PN<br>CAT                                                                                                       | Q/P NO. | ACCEPTABLE SUPPLIER AS PER<br>THE PRESENT DATABASE | PLACE                                                                           | SUB-SUPPLIER<br>APPROVAL<br>STATUS/<br>CATEGORY | REMARKS                                                            |  |

|    |                                                     |       |  |                                     |                |    |                                                                                   |
|----|-----------------------------------------------------|-------|--|-------------------------------------|----------------|----|-----------------------------------------------------------------------------------|
| 1. | HORIZONTAL<br>CENTRIFUGAL PUMPS                     | 1     |  | KSIB                                | PUNE           | A  |                                                                                   |
|    |                                                     | 1     |  | WILLO M&P                           | PUNE           | A  |                                                                                   |
|    |                                                     | 1     |  | VOLTAS                              | MUMBAI         | A  |                                                                                   |
|    |                                                     | 1     |  | BEST AND CROMPTON                   | CHENNAI        | A  |                                                                                   |
|    |                                                     | 1     |  | FLOW MORE                           | GHAZIABAD      | A  |                                                                                   |
|    |                                                     | 1     |  | WORTHINGTON                         | GHAZIABAD      | A  |                                                                                   |
|    |                                                     | 1     |  | SAN TURBO                           | COIMBATORE     | A  |                                                                                   |
|    |                                                     | 1     |  | GRUNDFOS PUMPS INDIA                | CHENNAI        | A  |                                                                                   |
|    |                                                     | 1     |  |                                     |                |    | UP TO 30 KW MOTOR<br>RATING. FOR<br>APPLICATION WHERE<br>NPSH IS NOT REQUIRED.    |
|    |                                                     | 1     |  | SULZAR                              | MUMBAI         | A  |                                                                                   |
| 2. | HYDRANT VALVE (SS)                                  | 1     |  | KISHORE PUMP                        | PUNE           | A  |                                                                                   |
|    |                                                     | 1     |  | KBL                                 | KIRLOSKARWADI  | A  |                                                                                   |
|    |                                                     | 1     |  | SUKAN                               | AHMEDABAD      | A  |                                                                                   |
|    |                                                     | 1     |  | SHAH BHOGILAL                       | AHMEDABAD      | A  |                                                                                   |
|    |                                                     | 1     |  | NEWAGE INDUSTRIES                   | SURENDRA NAGAR | A  |                                                                                   |
|    |                                                     | 1     |  | NAFECO                              | UAE            | A  |                                                                                   |
|    |                                                     | 1     |  | GHOSH ENGINEERING                   | KOLKATA        | DR |                                                                                   |
|    |                                                     | 1     |  | ASHOKA ENGINEERING                  | NEW DELHI      | DR |                                                                                   |
|    |                                                     | 1     |  | ASCO                                | KOLKATA        | DR |                                                                                   |
|    |                                                     | 1     |  | MAIN CONTRACTOR<br>APPROVED SOURCES |                |    |                                                                                   |
| 3. | SAFETY RELIEF<br>VALVE                              | III   |  | OTOKIN GLOBAL<br>BUSINESS           | MUMBAI         | A  |                                                                                   |
| 4. | STRAINER - CAT-III<br>. BASKET STRAINER -<br>CAT-I) | 1/III |  | SARAJINI ENTERPRISE                 | HOWRAH         | A  |                                                                                   |
|    |                                                     | 1/III |  | FILTRATION ENGINEERS                | MUMBAI         | A  |                                                                                   |
|    |                                                     | 1/III |  | HAWA ENGINEERS L.TD.                | AHMEDABAD      | A  |                                                                                   |
|    |                                                     | 1/III |  |                                     |                |    | FOR ONLY Y TYPE<br>STRAINER OF PRESSURE<br>CLASS UP TO 150 & SIZE<br>UP TO 300 MM |

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*Handwritten signature and date: 13/8/19*

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PROJECT : PANKI ( 1X660 MW)  
SUB-PACKAGE: FIDS PACKAGE  
SUPPLIER: BHEL PESD -HYDERABAD  
CONT. NO.:14A14-SPC-G-0001

INDICATIVE LIST OF ITEMS REQUIRING  
QUALITY PLAN AND SUB-SUPPLIER  
APPROVAL

DOC. No. :  
Revision No. : 00  
DATE: 23.07.2019  
PAGE 2 OF 7

SUB SYSTEM: MECHANICAL

| SL.NO. | ITEM                                                             | Q/P/INS<br>PN<br>CAT | Q/P NO. | ACCEPTABLE SUPPLIER AS PER<br>THE PRESENT DATABASE | PLACE                   | SUB-SUPPLIER<br>STATUS/<br>CATEGORY | REMARKS                                              |
|--------|------------------------------------------------------------------|----------------------|---------|----------------------------------------------------|-------------------------|-------------------------------------|------------------------------------------------------|
| 5.     | CI BUTTER FLY VALVE<br>( UPTO 500 NB PN<br>16,UPTO 900 NB PN 10) | I/III                |         | GRAND PRIX<br>MULTITEX                             | FARIDABAD<br>NOIDA      | A<br>A                              |                                                      |
|        |                                                                  | I/III                |         | GUJARAT OTOFILT                                    | AHMEDABAD               | A                                   |                                                      |
|        |                                                                  | I                    |         | INTERVALVE                                         | PUNE                    | A                                   |                                                      |
|        |                                                                  | I                    |         | WEIR BDK                                           | HUBLI                   | A                                   |                                                      |
|        |                                                                  | I                    |         | KIRLOSKER                                          | KONDHAPURI              | A                                   |                                                      |
|        |                                                                  | I                    |         | R & D MULTIPLE                                     | VALSAD                  | A                                   |                                                      |
|        |                                                                  | I                    |         | IL                                                 | PALAKKAD                | A                                   |                                                      |
|        |                                                                  | I                    |         | CRANE PROCESS FLOW                                 | SATARA                  | A                                   | UPTO 600 NB                                          |
|        |                                                                  | I                    |         | FOURESS ENGG                                       | BANGALORE               | A                                   |                                                      |
|        |                                                                  | I                    |         | PENTAIR                                            | BARODA                  | A                                   |                                                      |
| 6.     | CI GATE / GLOBE /<br>CHECK VALVES<br>( UPTO 600 NB PN 16)        | I                    |         | II SARKAR                                          | HOWRAH                  | A                                   |                                                      |
|        |                                                                  | I                    |         | BANKIM                                             | KOLKATA                 | A                                   |                                                      |
|        |                                                                  | I                    |         | KIRLOSKAR BROTHERS                                 | KONDHAPURI              | A                                   |                                                      |
|        |                                                                  | I                    |         | A V VALVE                                          | AGRA                    | A                                   | UP TO 300 NB PN 10                                   |
|        |                                                                  | II                   |         | LEADER                                             | JULANDHER               | A                                   |                                                      |
|        |                                                                  | I                    |         | Weir-BDK                                           | HUBLI                   | A                                   |                                                      |
|        |                                                                  | I                    |         | FOURESS ENGG.                                      | BANGALORE               | A                                   |                                                      |
|        |                                                                  | I                    |         | IL                                                 | PALAKKAD                | A                                   |                                                      |
|        |                                                                  | I                    |         | INTERVALVE                                         | PUNE                    | A                                   |                                                      |
|        |                                                                  | I                    |         | CRANE PROCESS                                      | SATARA                  | A                                   |                                                      |
| 7.     | SS BUTTERFLY VALVE<br>( UP TO 400 NB - PN 10)                    | I                    |         | LEADER                                             | JULANDHAR               | A                                   |                                                      |
|        |                                                                  | I                    |         | FOURESS ENGG                                       | AURANGABAD              | A                                   |                                                      |
|        |                                                                  | I                    |         | WEIR BDK                                           | HUBLI                   | A                                   |                                                      |
|        |                                                                  | I                    |         | STEEL STRONG VALVE                                 | NAVI MUMBAI             | A                                   |                                                      |
|        |                                                                  | I                    |         | HITECH                                             | AHMEDABAD               | A                                   |                                                      |
|        |                                                                  | I                    |         | KSB WATER PUMPS AND<br>VALVES                      | COIMBATORE              | A                                   |                                                      |
|        |                                                                  | I                    |         | BHEL                                               | GOINDWAL                | A                                   |                                                      |
|        |                                                                  | I                    |         | ISMT                                               | AHMEDNAGAR/BAR<br>AMATI | A                                   |                                                      |
|        |                                                                  | II                   |         |                                                    |                         | A                                   | AHMEDNAGAR UP TO 150<br>NB . BARAMATI UPTO 200<br>NB |
|        |                                                                  |                      |         |                                                    |                         |                                     |                                                      |
| 8.     | SS GATE /GLOBE/<br>CHECK VALVE (UP TO<br>300 NB - CL 300)        | I                    |         |                                                    |                         |                                     |                                                      |
| 9.     | SEAMLESS PIPE (FOR<br>INERT GAS SYSTEM)                          | II                   |         |                                                    |                         |                                     |                                                      |

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*Signature*

13/8/19

*Signature*



PROJECT : PANKI ( 1X660 MW )  
SUB-PACKAGE: FDPs PACKAGE  
SUPPLIER: BHEL, PESD -HYDERABAD  
CONT. NO.: 14A14-SPC-G-0001

INDICATIVE LIST OF ITEMS REQUIRING  
QUALITY PLAN AND SUB-SUPPLIER  
APPROVAL

DOC. No. :  
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PAGE 3 OF 7

SL.NO.

ITEM

QP/INS  
PN  
CAT

QP NO.

SUB SYSTEM: MECHANICAL  
ACCEPTABLE SUPPLIER AS PER  
THE PRESENT DATABASE

PLACE

SUB-SUPPLIER  
APPROVAL  
STATUS/  
CATEGORY

REMARKS

|     |                                                         |    |  |                                         |                                |   |                                                          |
|-----|---------------------------------------------------------|----|--|-----------------------------------------|--------------------------------|---|----------------------------------------------------------|
| 10. | M/S PIPE ( IS:1239 /<br>IS:3589 UPTO 150 NB/<br>900 NB) | I  |  | MAHARASHTRA SEAMLESS<br>VESSELS         | TARAPUR                        | A | LONGITUDINAL SAW<br>(SINGLE SIDE WELD) AS<br>PER IS 3589 |
|     |                                                         | II |  | SAIL                                    | ROURKELA                       | A | SPIRAL WELD SAW AS<br>PER IS 3589                        |
|     |                                                         | I  |  | PSL                                     | CHENNAI/ VIZAG/<br>KUTCH/DAMAN | A | 200 NB TO 500 NB ERW<br>PIPES AS PER IS 3589             |
|     |                                                         | I  |  | MAHARASHTRA SEAMLESS                    | RAIGAD                         | A | ERW PIPES AS PER IS 3589<br>UPTO 400 NB                  |
|     |                                                         | I  |  | RATNAMANI                               | KUTCH                          | A | UPTO 350 NB ERW PIPES<br>AS PER IS 1239/3589             |
|     |                                                         | I  |  | JINDAL                                  | GHAZIABAD                      | A | UPTO 400 NB ERW PIPES<br>AS PER IS 1239/3589             |
|     |                                                         | I  |  | SURYA KOSINI                            | BAHADURGARH                    | A | SPIRAL WELD SAW AS<br>PER IS 3589                        |
|     |                                                         | I  |  | RATNAMANI                               | KUTCH                          | A | SPIRAL WELD SAW AS<br>PER IS 3589                        |
|     |                                                         | I  |  | RATNAMANI                               | CHHATRAL                       | A | SPIRAL WELD SAW AS<br>PER IS 3589 ABOVE 600 NB           |
|     |                                                         | I  |  | JCO GAS PIPES                           | CHINDWARA                      | A | SPIRAL WELD SAW AS<br>PER IS 3589 ABOVE 400 NB           |
|     |                                                         | I  |  | PRATIBHA PIPES &<br>STRUCTURE PVT. LTD. | THANE                          | A | SPIRAL WELD SAW AS<br>PER IS 3589 ABOVE 400 NB           |
|     |                                                         | I  |  | LALIT PROFILE                           | THANE                          | A | SPIRAL WELD SAW AS<br>PER IS 3589 ABOVE 355<br>MM        |
|     |                                                         | I  |  | SURENDRA ENGG.                          | RAIPUR                         | A | SPIRAL WELD SAW AS<br>PER IS 3589 ABOVE 500<br>NB        |
|     |                                                         | I  |  | SAMSHI PIPES INDUSTRIES                 | VADODARA                       | A | SPIRAL WELD SAW AS<br>PER IS 3589 ABOVE 450 NB           |

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SUB-PACKAGE : FDPS PACKAGE  
SUPPLIER: BHEL PESD -HYDERABAD  
CONT. NO.: 14A14-SPC-G-0001

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PAGE 4 OF 7

SUB SYSTEM: MECHANICAL

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|--------|------|---------------------|--------|----------------------------------------------------|-------|-------------------------------------------------|---------|
|--------|------|---------------------|--------|----------------------------------------------------|-------|-------------------------------------------------|---------|

|     |           |    |  |                                            |             |   |                                                                                                                                                     |
|-----|-----------|----|--|--------------------------------------------|-------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 11. | FIRE HOSE | I  |  | MUKUT PIPES                                | RAJPURA     | A | LONGITUDINAL SAW<br>(SINGLE SIDE WELD) AS<br>PER IS 3589 UPTO 500 NB                                                                                |
|     |           | I  |  | INDUS TUBES                                | G B NAGAR   | A | UPTO 300 NB ERW PIPES<br>AS PER IS 1239/3589                                                                                                        |
|     |           | I  |  | MANN IND                                   | INDORE      | A | SPIRAL WELD SAW AS<br>PER IS 3589                                                                                                                   |
|     |           | II |  | TATA                                       | JAMSHEDPUR  | A | UPTO 150 NB ERW PIPES<br>AS PER IS 1239                                                                                                             |
|     |           | I  |  | WELSPUN                                    | BHARUCH     | A | SPIRAL WELD SAW AS<br>PER IS 3589                                                                                                                   |
|     |           | I  |  | DADU PIPES                                 | SIKANDRABAD | A | UPTO 300 NB ERW PIPE<br>AS PER IS 3589                                                                                                              |
|     |           | I  |  | JINDAL INDUSTRIES LTD.                     | HISSAR      | A | UPTO 300 NB ERW BLACK<br>PIPE AS PER IS 1239/3589                                                                                                   |
|     |           | I  |  | APL APOLLO TUBES LTD.                      | SIKANDRABAD | A | MS pipes ( Black & GI) as per<br>IS 1239 & MS pipes ( Black<br>& GI) as per IS 3589 up to<br>250 NB size, 8 mm thickness<br>and Grade up to Fe 410. |
|     |           | I  |  | LLYODS LINE PIPES LTD.                     | THANE       | A | MS pipes ( Black & GI) as per<br>IS 1239 & MS pipes ( Black )<br>as per IS 3589 up to 350 NB<br>size, 8 mm thickness and<br>Grade up to Fe 410.     |
|     |           | I  |  | WELSPUN                                    | ANJAR       | A | UPTO 400 NB ERW PIPES<br>AS PER IS 1239/3589                                                                                                        |
|     |           | II |  | BIS APPROVED SOURCES<br>WITH VALID LICENCE |             | A |                                                                                                                                                     |

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SUB-PACKAGE: FDPS PACKAGE  
SUPPLIER: BHEL PESD -HYDERABAD  
CONT. NO.:14A14-SPC-G-0001

SL.NO.

ITEM

QP/INS  
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SUB SYSTEM: MECHANICAL  
ACCEPTABLE SUPPLIER AS PER  
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PLACE

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|     |                                                |    |  |                                                            |                           |    |                                      |
|-----|------------------------------------------------|----|--|------------------------------------------------------------|---------------------------|----|--------------------------------------|
| 12. | WATER MONITOR/<br>WATER CUM FOAM<br>MONITOR    | II |  | HD FIRE<br>NEWAGE                                          | JALGAON<br>SURENDRA NAGAR | A  |                                      |
|     |                                                | II |  | NAFECO                                                     | UAE                       | A  |                                      |
|     |                                                | II |  | FIRETECH EQUIPMENT &<br>SYSTEMS                            | MUMBAI                    | DR |                                      |
| 13. | BRANCH PIPE.<br>COUPLING & NOZZLE<br>(SS & GM) | II |  | SHAH BHOGLAL<br>BIS APPROVED SOURCES<br>WITH VALID LICENCE | AHMEDABAD                 | A  |                                      |
| 14. | DELUGE VALVE WITH<br>TRIMS                     | I  |  | HD FIRE<br>TYCO (GRINELL)                                  | THANE/JALGAON<br>UK/USA   | A  |                                      |
|     |                                                | II |  | SHIELD                                                     | UK                        | A  |                                      |
|     |                                                | I  |  | FLOWTEK VALVES                                             | AHMEDABAD                 | DR |                                      |
|     |                                                | I  |  | DIE'S TECHNICO I.TD.                                       | KOLKATA                   | DR |                                      |
|     |                                                | I  |  | CARRIER                                                    | GURGAON                   | A  | FOR PISTON TYPE<br>DELUGE VALVE ONLY |
| 15. | HV/ MV SPRAY<br>NOZZLE                         | I# |  | HD FIRE<br>SHIELD                                          | THANE<br>UK               | A  |                                      |
|     |                                                | I# |  | UTC FIRE & SECURITY                                        | BANGALORE                 | A  |                                      |
|     |                                                | I# |  | SHAH BHOGLAL                                               | AHMEDABAD                 | DR |                                      |
|     |                                                | I# |  | NEWAGE                                                     | SURENDERNAGAR             | DR |                                      |
|     |                                                | I# |  | FIRETECH                                                   | MUMBAI                    | DR |                                      |
|     |                                                | I# |  | ASCO                                                       | KOLKATA                   | DR |                                      |
|     |                                                | I# |  | TYCO                                                       | UK/USA                    | A  |                                      |
| 16. | QB DETECTOR                                    | II |  | TYCO (GRINELL)<br>SHIELD                                   | UK                        | A  |                                      |
|     |                                                | I  |  | NEWAGE                                                     | SURENDERNAGAR             | DR |                                      |
|     |                                                | I  |  | HD FIRE                                                    | THANE                     | A  |                                      |
|     |                                                | II |  | MINIMAX                                                    | GERMANY                   | A  |                                      |
| 17. | WRAPPING & COATING<br>MATERIAL                 | II |  | MP TAR PRODUCTS                                            | BHILAI                    | A  |                                      |
|     |                                                | II |  | PORWAL INDUSTRIES                                          | RAIPUR                    | A  |                                      |
|     |                                                | II |  | A R LAMINATORS                                             | VADODARA                  | A  |                                      |
|     |                                                | II |  | STP                                                        | JAMSHEDPUR                | A  |                                      |

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