



NTPC LIMITED

CORPORATE QUALITY ASSURANCE & INSPECTION

ENGINEERING OFFICE COMPLEX

A 8A,SEC-24,NOIDA,UP-201301

PH: 0120-2410333,FAX-0120-2410137

TRANSMITTAL FOR CONTROLLED DOCUMENTS/DRAWINGS

FROM: AGM(QA-SPL)

REF. NO. 01/QA-SPL/WELDING CONSUMABLES/01

DATE:17.07.2017

TO: HOD(FQA)

(AS PER DISTRIBUTION LIST)

SUBJECT: RATIONALISED LIST OF WELDING CONSUMABLES FOR SITE USE

PLEASE FIND ENCLOSED FOLLOWING DRAWINGS/DOCUMENTS FOR NECESSARY ACTION AT YOUR END AS INDICATED IN PURPOSE CODE

Sl. No.	DRAWING NO/DOC NO.(AS GIVEN BY NTPC)	REV. NO.	DRAWING NO/DOC TITLE	NOS OF COPIES	PURPOSE CODE	REMARKS
01	0000-999-QOG-W-001	11	RATIONALISED LIST OF WELDING CONSUMABLES FOR SITE USE	1	10	

TRANSMITTAL PURPOSE CODE

1-APPROVED IN CATEGORY-I

2- APPROVED IN CATEGORY-II WITH COMMENTS, RESUBMIT

3-NOT APPROVED RE-SUBMIT, CATEGORY-III

4- APPROVED IN CATEGORY-IV(FOR INFORMATION ONLY)

5- APPROVED IN CATEGORY-I RELEASED FOR FABRICATION/
CONSTRUCTION

6-FOR YOUR COMMENTS

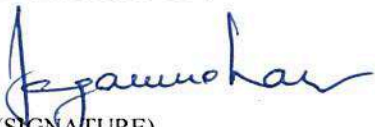
7-REVISED AS PER YOUR COMMENTS

8-FOR YOUR APPROVAL

9-FOR YOUR INFORMATION

10-FOR REFERENCE AND RECORDS.

NOTE-ALL PREVIOUS REVISIONS SHALL BE DESTROYED/MARKED "SUPERSEDED".

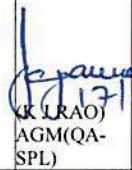
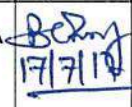


(SIGNATURE)

NAME: K J RAO

DESIGNATION: AGM(QA)



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TITLE	RATIONALISED LIST OF WELDING CONSUMABLES FOR SITE USE								
DOC. NO.	0000-999-QOG-W-001								
DATE OF ISSUE	17.07.2017								
RECORD OF APPROVALS & REVISIONS									
REVISION	3	4	5	6	7	8	9	10	11
DATE	15.03.99	14.02.2002	20.01.2006	12.03.2008	24.07.2009	27.04.2010	03.05.2012	06.09.2014	17.07.2017
DETAILS OF REVISION	UPDATED	POWER-MATE(E6013) ADDED REF VENDOR ASSESSMENT FILR NO T-250	UPDATED AS PER APPROVAL NOTE(REF NO.-01/CQA/0000/SP L/E02 DTD 18.10.2007)	UPDATED AS PER APPROVAL NOTE (REF NO.-01/CQA/0000/SP L/E02 DTD 18.10.2007)	UPDATED AS PER APPROVAL NOTE (REF NO.-01/CQA/0000 /SPL/E03 DTD 8.4.09,21.4.09 & 21.05.09)	UPDATED AS PER APPROVAL NOTE (REF NO.-01/CQA/0000 /SPL/E02 DTD 27.4.10)	UPDATED AS PER APPROVAL NOTE (REF NO.-01/CQA/0000 /SPL/E02 DTD 03.05.12)	UPDATED AS PER APPROVAL NOTE (REF NO.-01/CQA/0000 /SPL/E02 DTD 06.09.14)	UPDATED AS PER APPROVAL NOTE (REF NO.-01/QA-SPL/WELDING CONSUMABLES/01, DTD: 14.07.17)
PREPARED BY SIGNATURE NAME/ DESIGN.	SD/ DC MATHUR SR ENGR(QA-SPL)	SD/ M K ASTHANA MANAGER(QA-SPL)	SD/ M K ASTHANA MANAGER(QA-SPL) SD/BANISH K JHA SR ENGR(QA-SPL)	SD/ BANISH K JHA SR ENGR(QA-SPL)	SD/ V K PRASAD DY. MANAGER (QA-SPL)	SD/ V K PRASAD DY. MANAGER (QA-SPL)	SD/ V K GUPTA DY. MANAGER (QA-SPL)	SD/ S K SUR DGM (QA-SPL)	 (S K SUR) AGM(QA-SPL)
REVIEWED BY SIGNATURE NAME/ DESIGN.	SD/OP NIRANJAN MANAGER(QA-SPL)	SD/OP NIRANJAN MANAGER(QA-SPL)	SD/OP NIRANJAN SR MANAGER (QA-SPL)	SD/OP NIRANJAN SR MANAGER (QA-SPL)	SD/OP NIRANJAN SR MANAGER (QA-SPL)	SD/OP NIRANJAN DGM (QA-SPL)	SD/ RAJEEV GARG DGM(QA-SPL) SD/-1 GOWRISAN KAR AGM(QA-SPL)	SD/ K K CHATTOPADHYAY AGM(QA-SPL) SD/-1 GOWRISAN KAR AGM(QA-SPL)	 (B C ROY) AGM(QA-SPL)
APPROVED BY SIGNATURE NAME/ DESIGN.	SD/- ANIL GUPTA HOD(QA-SPL)	SD/- V D V R RAO HOD(QA-SPL)	SD/- ANIL GUPTA HOD(QA-SPL)	SD/- U R KHOSLA DGM(QA-SPL)	SD/- A K DATTA DGM(QA-SPL) SD/-1 GOWRISAN KAR DGM(QA-SPL)	SD/- A K DATTA DGM(QA-SPL) SD/-1 GOWRISAN KAR DGM(QA-SPL)	SD/- A K GARG DGM(QA-SPL)	SD/- BIRENDRA KUMAR GM(QA-SPL)	 (K K OJHA) GM(QA-SPL)

CONTROLLED COPY NO.	ISSUED TO	
	DESIGNATION	PROJECT
MASTER COPY	HOD(QA-SPECIALIST)	MASTER COPY, CORPORATE CENTRE
1	HEAD (QA&I)	CORPORATE CENTRE
2	HOD (FQA)	ANTA GAS PP
3	HOD (FQA))	ARAVALI , JHAJJAR (IGSTPP)
4	HOD (FQA)	AURAIYA GAS PP
5	HOD (FQA)	BADARPUR TPS
6	HOD (FQA)	BARH STPP
7	HOD (FQA)	BONGAIGAON TPP
8	HOD (FQA)	BRBCL, NABINAGAR
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36	HOD (FQA)	PAKRI BARWADIH COAL MINING
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40	HOD (FQA)	RATNAGIRI GAS & POWER PVT LTD
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44	HOD (FQA)	SIMHADRI STPP
45	HOD (FQA)	SOLAPUR STPP
46	HOD (FQA)	TALAIPALLI COAL MINING
47	HOD (FQA)	TALCHER STPP
48	HOD (FQA)	TALCHER TPS
49	HOD (FQA)	TANDA TPS
50	HOD (FQA)	TAPOVAN-VISHNUGAD HYDRO PP
51	HOD (FQA)	TELANGANA STPP
52	HOD (FQA)	VALLUR (JV-NTECL)
53	HOD (FQA)	VINDHYACHAL STPP

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
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[1] SMAW ELECTRODES FOR STRUCTURES

S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
1(A)	E6013				
1	E6013	AARYA-13	Aarya Electrodes (P) Ltd.	Agra	Rutile electrode for welding non-pressure parts of mild and low carbon steels
2	E6013	SUNWELD	Abirami Electrodes	Coimbatore	
3	E6013	METALBOND	Ador Welding Ltd.	Pune	
4	E6013	ACCURATE ARC E6013	Accurate Weldarc Pvt Ltd	Raipur	
5	E6013	ALPHA 6013	Alpha Arc (P) Ltd	Ghaziabad	
6	E6013	WELDER - G	Alpha Flux &Eletrodes	Trichy District	
7	E6013	SUNGOLD	Asokaa Alloys	Coimbatore	
8	E6013	AWT E6013	Atharve Welding Technologies (I)	Solapur	
9	E6013	B&H ULTRA	B&H Electrodes (P) Ltd	Mohali	
10	E6013	MONARC-S	Bagherwal Electrodes (P) Ltd.	Indore	
11	E6013	SONY ARC E6013	Balaji Electrodes	Coimbatore.	
12	E6013	A-ONE E6013	Bright Weld Technologies	Coimbatore.	
13	E6013	SHIVA-S	Calcutta Electrodes (P) Ltd.	Raipur	
14	E6013	CLASSIC 6013 PLUS.	Classic Electrodes (India) Ltd.	Kolkata	
15	E6013	ATLAS-13	Cosmos Electrodes (P) Ltd	Indore	
16	E6013	Standard	D&H India Ltd.	Indore	
17	E6013	Norma	D&H Secheron Electrodes (P) Ltd	Indore	
18	E6013	ELMARK 11	Elmarc Electrodes (P) Ltd.	Chennai	



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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
1(A)	E6013				
19	E6013	ESAB Ferrospeed Plus	ESAB India Ltd	Chennai	Rutile electrode for welding non-pressure parts of mild and low carbon steels
20	E6013	NUMBER ONE	Eureka Systems And Electrodes (P) Ltd	Coimbatore	
21	E6013	ELECTRA-6	Fusion Engg. Products Private Ltd.	Gamaria	
22	E6013	GEECON PINK	Gee Limited	Kalyan (W)	
23	E6013	Regular-S	Honavar Electrode Pvt Ltd	Mumbai	
24	E6013	IDEAL 40	Ideal Electrodes	Coimbatore.	
25	E6013	CROWN 13S	K.M.Crown Welding Consumables (P)	Dewas	
26	E6013	KELARC 6013	Kollipara Electrodes (P) Ltd.	Krishna Dist.	
27	E6013	MAGNARC 63	Magnarc Electrodes (P) Ltd.	Visakhapatnam	
28	E6013	MAILARC 13R	Mailam India Limited	Pondicherry	
29	E6013	MANGALAM E 6013	Malu Electrodes (P) Ltd.	Nagpur	
30	E6013	MANTEK GP-13.	MantekElectrods Private Ltd	Trichy	
31	E6013	MARUTHI 6013X-	Maruthi Electrodes (P) Ltd.	Bangalore	
32	E6013	Maruti-44	Maruti Weld Private Ltd.	New Delhi	
33	E6013	MEGA E6013	Mega Weld Technologies	Coimbatore	
34	E6013	MICRO-6013	Micro Weld (India)	Ludhiana	
35	E6013	MIGLANI ARK-X	Miglani Engineers	Haridwar.	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
1(A)	E6013				
36	E6013	STEELON STANDARD	Modi Arc Electrodes Co	Ghaziabad	Rutile electrode for welding non-pressure parts of mild and low carbon steels
37	E6013	GM 20	ModiHitech India Ltd.	New Delhi	
38	E6013	MEDAL ARC	Nivetha Electrodes	Tiruchirapally	
39	E6013	EKNOWELD	Nucor Weld(India)(P) Ltd.	Bangalore	
40	E6013	GALA WELD	Orange Electrodes Industries	Asangaon	
41	E6013	SUN ARC X - 19	Orion Wire Manufacturing Co.	Bharuch	
42	E6013	ANAND-13	P.R.Industries	Kota	
43	E6013	RATNA 6013X	Raajratna Electrodes Ltd	Ahmedabad	
44	E6013	RAJCORD-13S	Raj Kesari Electrodes	Udaipur	
45	E6013	RASI E6013	Rasi Electrodes Ltd.	Chennai	
46	E6013	ROYAL S	Royal Arc Electrodes (P) Ltd	Thane	
47	E6013	JACKSON 5	Royal Welding Wires (P) Ltd.	Kanchipuram	
48	E6013	BALAJI	Rukhmani Electrodes (P) Ltd.	Kolkata	
49	E6013	KAYNOZ 7S	Seth Electrodes (P) Ltd.	Khurai	
50	E6013	ESL' ARC-62	Shieldarc Equipments (P) Ltd	Kolkata	
51	E6013	VATSARC 19 PLUS.	Solarc Weld Rods	Chennai	
52	E6013	SUDO 6013	Spectra Super Alloys Ltd	Jamshedpur	
53	E6013	SUNSHINE E6013	Sri Renga Electrodes (P) Ltd	Trichy	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS	
1(A)	E6013					
54	E6013	SUNDEEP S	Sundeeep Electrodes (P) Ltd.	Hapur	Rutile electrode for welding non-pressure parts of mild and low carbon steels	
55	E6013	OVERCORD S	Superon Schweisstechnik (I) Ltd	Haryana		
56	E6013	BEST ARC MS11-	V.N.C.Electrodees	Karur		
57	E6013	PRIMEARC-13	Valency Compounds Services Pvt Ltd	Ahmednagar		
58	E6013	PRIMA-6013S	Varun Electrodes (P) Ltd.	Panipat		
59	E6013	SPEEDARC E6013	Voltarc Electrode (P) Ltd	Tirupathi		
60	E6013	WA-6013-S	Weld Alloy Products Ltd.	G Noida		
61	E6013	WELDALL	Weldall Electrodes (India)	Nagpur		
62	E6013	NOVAX - 13	Weldcom Electrodes (P) Ltd.	Surat		
63	E6013	MAXIMA-6013X	Weldcraft Private Ltd.	Bangalore		
64	E6013	WELDFAST SUPER	Weldwell Electrodes	Nagpur		

LOW HYDROGEN SMAW ELECTRODES FOR STRUCTURES					
1(B)	E7018				
1	E7018	SUPABASE 7018	Ador Welding Ltd	Pune	Basic coated low hydrogen electrodes for welding of thick sections in structural steels
2	E7018	ALPHA 7018	Alpha Arc Pvt Ltd	Ghaziabad	
3	E7018	SUPER WELD 7018	Alpha Flux &Eletrodes	Trichy District	
4	E7018	ANAND THERME	Anand Arc Ltd	Chennai	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS	
1(B)	E7018					
5	E7018	MONOTHERME	Bagherwal Electrodes (P) Ltd.	Indore	Basic coated low hydrogen electrodes for welding of thick sections in structural steels	
6	E7018	SHIVATHERME-18	Calcutta Electrodes (P) Ltd.	Raipur		
7	E7018	CLASSIC LH-7018	Classic Electrodes (India) Ltd.	Kolkata		
8	E7018	SUPRA MAX-18	Cosmos Electrodes Pvt Ltd	Indore		
9	E7018	SUPRATHERME	D&H Secheron Electrodes Pvt Ltd	Indore		
10	E7018	SUPER LH	D&H India Limited	Indore		
11	E7018	ESAB-36H	ESAB India Ltd	Chennai		
12	E7018	EUTHERME LH	Eureka Systems And Electrodes P.Ltd	Coimbatore		
13	E7018	BASICOTE 6	Fusion Engg Products Private Ltd	Gamaria		
14	E7018	GRICON GREEN	GEE Limited	Kalyan (W)		
15	E7018	ULTIMATE-18----	Honavar Electrodes Pvt Ltd	Mumbai		
16	E7018	KELARC-7018	Kollipara Electrodes Pvt Ltd	Krishna Dist.		
17	E7018	CROWN-18	K.M. Crown Welding Consumables Pvt	Dewas		
18	E7018	MAGNAARCH LH	Magnarc Electrodes (P) Ltd.	Visakhapatnam		
19	E7018	MAGNA-8	Magna Engineering	Vijaywada		
20	E7018	MAIL ARC 18	Mailam India Limited	Pondicherry		
21	E7018	MANGALAM E 7018	Malu Electrodes (P) Ltd.	Nagpur		
22	E7018	MANTEK LH 18	Mantek Electrods Private Ltd	Trichy		

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
1(B)	E7018				
23	E7018	MARUTHI 7018	Maruthi Electrodes (P) Ltd	Bangalore	Basic coated low hydrogen electrodes for welding of thick sections in structural steels
24	E7018	ULTRA - 7018	Maruti Weld Private Limited	New Delhi	
25	E7018	MODI 7018	Modi Arc Electrodes Co.	Ghaziabad	
26	E7018	GM18	Modi Hitech India Ltd	New Delhi	
27	E7018	SUPERIAL LH E7018	Murli Electrode (P) Ltd	Nagpur	
28	E7018	EKNOWELD	Nucor Weld(India) Ltd	Bangalore	
29	E7018	RATNA 7018	Raajratna Electrodes Ltd	Ahmedabad	
30	E7018	SUPERLET - 18	Raj Kesari Electrodes Pvt Ltd	Udaipur	
31	E7018	RASI 7018LH	Rasi Electrodes Ltd	Chennai	
32	E7018	ROYAL THERM	Royal Arc Electrodes Ltd	Thane	
33	E7018	JACKSON 18H	Royal Welding Wires Pvt Ltd	Kanchipuram	
34	E7018	REPL 7018	Rukhmani Electrodes (P) Ltd.	Kolkata	
35	E7018	SAITRON LH-7018	Saitron Engineers Pvt Ltd	Nagpur	
36	E7018	SUPRADYNE	Solarc Weld Rods	Chennai	
37	E7018	SUDO 7018	Spectra Super Alloys Ltd	Jamshedpur	
38	E7018	SUNSHINE - 18	Sri Renga Electrodes (P) Ltd	Trichy	
39	E7018	SUNDEEP 7018	Sundeep Electrodes Pvt Ltd	Hapur	
40	E7018	SUPERCITO OERLICON	Superon Schweisstechnik India Ltd	Haryana	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
1(B)	E7018				
41	E7018	ISWP SPARK 7018	The Indian Seel & Wire Products Ltd	Jharkand	Basic coated low hydrogen electrode for welding of thick sections in structural steels
42	E7018	SEVEN ARCS-18	Thirumala Electrodes Co	Trichy	
43	E7018	PRIMA7018	Varun Electrodes Pvt Ltd	Panipat	
44	E7018	BESTARC-LH-18	V.N.C.Electrodees	Karur	
45	E7018	VJ-7018	Vijey Electrodes And Wires (P) Ltd.	Chennai	
46	E7018	SPEEDARC-7018	Voltarc Electrodes (P) Ltd	Tirupathi	
47	E7018	WA 7018	Weld Alloy Products Ltd	G Noida	
48	E7018	MAXIDURE-7018	Weldcraft Private Ltd.	Bangalore	
49	E7018	EXCEL - 18----	Weld Excel India Ltd	Ludhiana	
50	E7018	WELDFAST LH 18	Weldfast Electrodes Pvt Ltd	Nagpur	

[2] LOW HYDROGEN SMAW ELECTRODES FOR PRESSURE PARTS

2(A)	E7018				
1	E7018	AARYA-7018	Aarya Electrodes Pvt Ltd	Agra	Basic coated low hydrogen electrodes for welding of thick sections in structural steels and pressure parts
2	E7018	SUPABASE 7018	Ador Welding Limited	Pune	
3	E7018	ANAND THERME	Anand Arc Ltd.	Chennai	
4	E7018	B&H-7018	B&H Electrodes Pvt Ltd	Mohali	
5	E7018	SUPRA MAX-18	Cosmos Electrodes (P) Ltd	Indore	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
2(A)	E7018				
6	E7018	SUPER LH	D&H India Ltd.	Indore	Basic coated low hydrogen electrodes for welding of thick sections in structural steels and pressure parts
7	E7018	SUPRATHERME	D&H Secheron Electrodes (P) Ltd.	Indore	
8	E7018	ESAB-36H	ESAB India Ltd	Chennai	
9	E7018	BASICOTE 6	Fusion Engg. Products Private Ltd.	Gamaria	
10	E7018	GRICON GREEN	Gee Limited	Kalyan (W)	
11	E7018	ULTIMATE - 18.	Honavar Electrodes Pvt Ltd.	Mumbai	
12	E7018	CROWN-18	K.M.Crown Welding Consumables (P)	Dewas	
13	E7018	KELARC-7018	Kollipara Electrodes (P) Ltd.	Krishna Dist.	
14	E7018	MAIL ARC 18	Mailam India Limited	Pondicherry	
15	E7018	MANTEK LH 18	MantekElectrods Private Ltd	Trichy	
16	E7018	MARUTHI 7018	Maruthi Electrodes (P) Ltd.	Bangalore	
17	E7018	ULTRA - 7018	Maruti Weld Private Ltd.	New Delhi	
18	E7018	MODI 7018	Modi Arc Electrodes Co.	Ghaziabad	
19	E7018	GM 18	ModiHitech India Ltd.	New Delhi	
20	E7018	EKNOWELD	Nucor Weld(India)(P) Ltd.	Bangalore	
21	E7018	SUPERLET - 18.	Raj Kesari Electrodes	Udaipur	
22	E7018	RASI 7018LH	Rasi Electrodes Ltd.	Chennai	
23	E7018	ROYAL THERME	Royal Arc Electrodes (P) Ltd	Thane	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS	
2(A)	E7018					
24	E7018	JACKSON 18H	Royal Welding Wires (P) Ltd.	Kanchipuram	Basic coated low hydrogen electrodes for welding of thick sections in structural steels and pressure parts	
25	E7018	SAITRON LH-7018	Saitron Engineers Pvt Ltd	Nagpur		
26	E7018	SUNSHINE - 18	Sri Renga Electrodes (P) Ltd	Trichy		
27	E7018	SUNDEEP 7018	Sundeeep Electrodes (P) Ltd	Hapur		
28	E7018	SUPERCITO OERLICON E	Superon Schweissttechnik (I) Ltd	Haryana		
29	E7018	SEVEN ARCS-18	Thirumala Electrodes Co.	Trichy		
30	E7018	PRIMA7018	Varun Electrodes (P) Ltd.	Panipat		
31	E7018	VJ-7018	Vijey Electrodes and Wires Pvt	Chennai		
32	E7018	SPPEDARC E-7018	Voltarc Electrodes (P) Ltd	Tirupathi		
33	E7018	WELDALLH 7018	Weldall Electrodes(India)	Nagpur		
34	E7018	WA 7018	Weld Alloy Products Ltd.	G Noida		
35	E7018	EXCEL-18	Weld Excel India Ltd.	Ludhiana		
36	E7018	WELDFAST LH-18	Weldfast Electrodes Pvt Ltd	Nagpur		

2(B)	E7018-1					
1	E7018-1	TENALLOY-Z-PLUS	Ador Welding Limited	Pune	Low hydrogen iron powder electrode recommended for welding pr parts of carbon steels	
2	E7018-1	SUPER-LH(SPL)	D&H India Ltd	Indore		
3	E7018-1	Supra ThermeSpl.	D&H Secheron Electrodes (P) Ltd.	Indore		

[Handwritten Signature]

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
2(B)	E7018-1				
4	E7018-1	GRICON GREEN SPL	Gee Limited	Kalyan (W)	Low hydrogen iron powder electrode recommended for welding pr parts of carbon steels
5	E7018-1	Ultimate-18 SPL	Honavar Electrodes Pvt Ltd.	Mumbai	
6	E7018-1	MAILARC-18PLUS	Mailam India Limited	Pondicherry	
7	E7018-1	MODI 7018 SPL	Modi Arc Electrodes Co.	Ghaziabad	
8	E7018-1	ROYAL THERME SPL	Royal Arc Electrodes Limited	Thane	
9	E7018-1	VJ 7018-1	Vijey Electrodes And Wires (P)	Chennai	

[3] ALLOY STEEL SMAW ELECTRODE

3(A)	E7018-A1				
1	E7018-A1	Molytherme	D&H Secheron Electrodes (P) Ltd	Indore	Low hydrogen iron powder electrode recommended for welding pr parts of carbon steels
2	E7018-A1	MODI-7018-A1	Modi Arc Electrodes Co.	Ghaziabad	
3	E7018-A1	ULTIMATE 18A1	Honavar Electrodes Pvt Ltd.	Mumbai	
4	E7018-A1	RAJWELD-18A1	Raj Kesari Electrodes	Udaipur	
3(B)	E8018-B2				
1	E8018-B2	Cromotherme - 1	D&H Secheron Electrodes (P) Ltd	Indore	Low hydrogen electrode used for welding pr parts of 1Cr 1/2 Mo
2	E8018-B2	GRIDUCT3	Gee Limited	Kalyan (W)	
3	E8018-B2	ULTIMATE-80-B2	Honavar Electrodes Pvt Ltd.	Mumbai	

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3(B)	E8018-B2				
4	E8018-B2	MAILARC 1CR	Mailam India Limited	Pondicherry	Low hydrogen electrode used for welding pr parts of 1Cr 1/2 Mo
5	E8018-B2	MANTEK CROMO 1	MantekElectrods Private Ltd	Trichy	
6	E8018-B2	ULTRA-CR-1	Maruti Weld Private Ltd.	New Delhi	
7	E8018-B2	MODI-8018-B2	Modi Arc Electrodes Co.	Ghaziabad	
8	E8018-B2	GM 80-B2	ModiHitech India Ltd.	New Delhi	
9	E8018-B2	RAJWELD-8018B2	Raj Kesari Electrodes	Udaipur	
10	E8018-B2	VJ-8018-B2	Vijey Electrodes And Wires (P)	Chennai	

3(C)	E9018-B3				
1	E9018-B3	SUPER - CR - 2	D&H India Ltd.	Indore	Low hydrogen 2 1/4Cr 1 Mo electrode used for welding pressure parts of similar material composition and 1/2 Cr 1/2 Mo 1/4 V steels
2	E9018-B3	Cromotherme - 2	D&H Secheron Electrodes (P) Ltd	Indore	
3	E9018-B3	GRIDUCT - 4	Gee Limited	Kalyan (W)	
4	E9018-B3	ULTIMATE-90B3	Honavar Electrodes Pvt Ltd.	Mumbai	
5	E9018-B3	MAILARC 2CR	Mailam India Limited	Pondicherry	
6	E9018-B3	ULTRA - CR-2	Maruti Weld Private Ltd.	New Delhi	
7	E9018-B3	MODI-9018B3	Modi Arc Electrodes Co.	Ghaziabad	
8	E9018-B3	GM 90 B3	ModiHitech India Ltd.	New Delhi	
9	E9018-B3	VJ-9018-B3	Vijey Electrodes And Wires (P)	Chennai	



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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
3(D)	E9015-B9				
1	E9015-B9	CROMO E91	Air-Liquide Welding France	France	Electrodes for T91 / P91 / F91 tubes, pipes & forgings as per ASME
2	E9015-B9	CM-95B9	Kanematsu Trading Corporation (Kobelco)	Japan	
3	E9015-B9	CHROMET 9MV-N	Metrode Products Ltd.	UK	
4	E9015-B9	THERMANIT MTS - 3	VoestalpineBohler Welding	Germany	


[4]	ALLOY STEEL FILLER RODS FOR GTAW (TIG WELDING)				
4(A)	ER80S-D2				
1	ER80S-D2	MnMo	Metrode Products Ltd.	UK	Used for weldig tubes for carbon & 1/2 Mo steels in pressure parts
2	ER80S-D2		Nippon Steel & Sumikin Bussan	Japan	
3	ER80S-D2	Union 1 Mo Mn	VoestalpineBohler Welding	Germany	

4(B)	ER80S-B2				
1	ER80S-B2	TIGFIL 80S -B2	Ador Welding Ltd.	Pune	Used for welding of pressure parts of similar materials
2	ER80S-B2	F CR MO 1	D&H Secheron Electrodes (P) Ltd.	Indore	
3	ER80S-B2	OK TIGROD 13.16	ESAB India Ltd	Chennai	
4	ER80S-B2	GM 80S-B2	I A Barnes & Co Ltd	UK	
5	ER80S-B2	INETIG B2	Industria Nazionale Elettrodi S.P.A	Italy	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
4(B)	ER80S-B2				
6	ER80S-B2	TG-S80B2	Kanematsu Trading Corporation (Kobelco)	Japan	Used for welding of pressure parts of similar materials
7	ER80S-B2	GETIG 80S B2	GEE Limited	Kalyan (W)	
8	ER80S-B2	MARUTHI TB2	Maruthi Electrodes (P) Ltd.	Bangalore	
9	ER80S-B2	METRODE ER80S-B2	Metrode Products Ltd.	UK	

4(C)	ER90S-B3				
1	ER90S-B3	TIGFIL 90S - B	Ador Welding Ltd.	Pune	Used for welding pressure parts of 2 1/4Cr 1 Mo and 1/2 Cr 1/2 Mo 1/4 V steels
2	ER90S-B3	FCRMO-2	D&H Sechron Electrodes Pvt Ltd	Indore	
3	ER90S-B3	GM90S-B3	I A Barnes & Co Ltd	UK	
4	ER90S-B3	INETIG B3	Industria Nazionale Elettrodi S.P.A	Italy	
5	ER90S-B3	TG-S90B3	Kanematsu Trading Corporation (Kobelco)	Japan	
6	ER90S-B3	MARUTHI TB3	Maruthi Electrodes (P) Ltd.	Bangalore	
7	ER90S-B3	METRODE ER90S-B3	Metrode Products Ltd.	UK	
8	ER90S-B3	UNION ER 90 S-B3	VoestalpineBohler Welding	Germany	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
4(D)	ER90S-B9				
1	ER90S-B9	CARBOROD CrMo91	Air-Liquide Welding France	France	TIG welding rods for T91 / P91 / tubes and pipes as per ASME
2	ER90S-B9	TG-S90B9	Kanematsu Trading Corporation (Kobelco)	Japan	
3	ER90S-B9	9CRMOV-N TIG	Metrode Products Ltd.	UK	
4	ER90S-B9	THERMANIT MTS 3	VoestalpineBohler Welding	Germany	

[5]	STAINLESS STEEL SMAW ELECTRODES				
5(A)	E308-16				
1	E308-16	Rutox A	D&H Secheron Electrodes (P) Ltd	Indore	Stainless steel electrodes used for welding 304 and 308 materials
2	E308-16	OK 61.50	ESAB India Ltd	Chennai	
3	E308-16	MAILEX-A	Mailam India Limited	Pondicherry	
4	E308-16	SS-308	Modi Arc Electrode Co.	Ghaziabad	
5	E308-16	ROYAL-1A	Royal Arc Electrodes Limited	Thane	

5(B)	E308L-16				
1	E308L-16	Rutox-B	D&H Secheron Electrodes (P) Ltd	Indore	Stainless steel electrodes used for welding SS-409M to SS-409M
2	E308L-16	OK 61.30	ESAB India Ltd	Chennai	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
5(C)	E309-16				
1	E309-16	Cronitherme 25/12	D&H Secheron Electrodes (P) Ltd	Indore	25/12 stainless steel electrodes for welding stainless steel and ferritic steel combination and SS butter layers
2	E309-16	OK 67.67	ESAB India Ltd	Chennai	
3	E309-16	SILVERSHINE - 309	Honavar Electrodes Pvt Ltd	Mumbai	
4	E309-16	MAILEX-25/12	Mailam India Limited	Pondicherry	
5	E309-16	SS-309	Modi Arc Electrodes Co.	Ghaziabad	
6	E309-16	ROYAL-D2	Royal Arc Electrodes Limited	Thane	

5(D)	E309L-16				
1	E309L-16	D&H-309-L	D&H Secheron Electrodes (P) Ltd	Indore	SS electrode used for welding SS-409M and mild steel
2	E309L-16	OK 67.60	ESAB India Ltd	Chennai	

5(E)	E310-16				
1	E310-16	D&H 310-16	D&H Secheron Electrodes (P) Ltd	Indore	25/10 SS electrode for welding SS and ferritic steel combination
2	E310-16	OK 67.13	ESAB India Ltd	Chennai	

5(F)	E316-16				
1	E316-16	Rutox Mo	D&H Secheron Electrodes (P) Ltd	Indore	18/8 2% Mo type stainless steel electrode
3	E316-16	OK 63.50	ESAB India Ltd	Chennai	
	E316-16	ROYAL - 2A	Royal Arc Electrodes Limited	Thane	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
5(G)	E316L-16				
1	E316L-16	RUTOX-D	D&H Secheron Electrodes Pvt Ltd	Indore	
2	E316L-16	OK 63.30	ESAB India Ltd	Chennai	

5(H)	E347-16				
1	E347-16	Rutox A (ST)	D&H Secheron Electrodes (P) Ltd	Indore	18/8 stabilised stainless steel electrode for welding 308, 321 and 347 stainless steel materials
2	E347-16	OK 61.80	ESAB India Ltd	Chennai	
3	E347-16	GRINOX 47	GEE Limited	Kalyan (W)	
4	E347-16	SILVERSHINE- 347 -16	Honavar Electrodes Pvt Ltd	Mumbai	
5	E347-16	MAILEX-ANB	Mailam India Limited	Pondicherry	
6	E347-16	SUPERALLOY 1A(S)	Maruti Weld Private Limited	New Delhi	
7	E347-16	SS-347	Modi Arc Electrodes Co.	Ghaziabad	
8	E347-16	GM 347	Modi Hitech India Ltd	New Delhi	
9	E347-16	ROYAL-1B	Roya Arc Electrodes Limited	Thane	


5(I)	ENiCrFe3				
1	ENiCrFe3	D&H 1212 NS	D&H Secheron Electrodes (P) Ltd	Indore	Inconel-182 elctrodes for dissimilar welding and buttering
2	ENiCrFe3	GEMET 821N	GEE Limited	Kalyan (W)	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
5(I)	ENiCrFe3				
3	ENiCrFe3	CRYOMATE -3NS	Honavar Electrodes Pvt Ltd	Mumbai	Inconel-182 elctrodes for dissimilar welding and buttering
4	ENiCrFe3	INCONEL 182	Special Metals Welding Products	UK	
5	ENiCrFe3	THERMANIT NICRO 182	VoestalpineBohler Welding	Germany	

[6]	STAINLESS STEEL FILLER RODS FOR GTAW (TIG WELDING)				
6(A)	ER308				
1	ER308	ER 308	D&H Secheron Electrodes (P) Ltd	Indore	Used for SS 304 & SS 308 materials

6(B)	ER347				
1	ER347	GETIG 347	GEE Limited	Kalyan (W)	Used for SS 304 and SS 308 materials
2	ER347	TG-S347	Kanematsu Trading Corporation (Kobelco)	Japan	
3	ER347	347S96	Metrode Products Ltd.	UK	
4	ER347	THERMANIT H347	VoestalpineBohler Welding	Germany	

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S NO	TYPE	BRAND NAME	MANUFACTURER	LOCATION	REMARKS
6(C) Super 304H					
1	Super 304H	TG-SUPER 304 H	Kanematsu Trading Corporation (Kobelco)	Japan	For TIG welding of super 304H
2	Super 304H	YT-304H	Nippon Steel & Sumikin Bussan	Japan	
3	Super 304H	THERMANIT 304 H CU	VoestalpineBohler Welding	Germany	

6(D) ERNiCr3					
1	ERNiCr3	TIG-521	Ador Fontech Limited	Bangalore	Inconel 82 TIG rods for pressure parts SS to alloy steel
2	ERNiCr3	TG-S70NCB	Kanematsu Trading Corporation (Kobelco)	Japan	
3	ERNiCr3	MARUTHY TNICR3	Maruthi Electrodes (P) Ltd.	Bangalore	
4	ERNiCr3	20.70.NB	Metrode Products Ltd.	UK	
5	ERNiCr3	THERMANIT NICRO 82	VoestalpineBohler Welding	Germany	

NOTES
1. In case of main plant equipment like boiler pressure parts and TG , special welding consumables , if any shall be used as per OEM recommendations.
2. If semi-automatic or automatic welding processes are used , welding consumables shall be used as per OEM recommendations.

Jyoti Mohan



NTPC LTD.

ENGINEERING DIVISION

CORPORATE QUALITY ASSURANCE & INSPECTION

1st FLOOR ENGINEERING OFFICE COMPLEX, A-15, SEC-24, NOIDA, U.P. 201301

TEL: 0522-261076, 298872, 73, FAX: 0522-210009, 210011

REF. NO.: 01-CQA-0000-SPL-FI37/463 DATE: 25-04-2011 PAGE 1 OF 1

TO
Shri Ashok Kumar Gupta
Construction Manager (BHEL- Parichha Site)
Parichha Thermal Power Plant
Parichha ;
Jhansi -284-305

SUBJECT: CONSULTANCY SERVICES TO URVONL PARICHHA TPS EXTN /
VENDOR PROPOSAL FOR THE SUPPLY OF WELDING ELECTRODES TO - BHEL
SITE AT PARICHHA (PSNR)

Dear Sir,

This has reference to BHEL letter no PNR/50X/PAR/STG-III/B18/ dtd. 11-07-2010, proposing additional vendor M/s Raj Kesari Electrodes Pvt. Ltd. Udaipur, for Welding Electrodes and further clarification / experience submitted by sub-vendor vide their letter no RKS/11-12/2495 dated 18-04-2011 & dated 18-04-2011.

BHEL's proposal is acceptable for the following SMAW electrodes for Structural purpose

E-6013 (Brand Name RAJCORD-13S) and

E-7018 (Brand Name SUPERLET 18)

Thanking you and assuring you of our best services at all times.

Yours faithfully

(D. NIRANJANA)
DOMINA

QA&CO-ORDINATOR FOR PARICHHA & HARDUAGANI

CC	Chief Engineer (E-1) PLMM Unit, 7th Floor, Shakal Bhanwan Extn. 14, Ashok Marg, Lucknow - 226001
CC	Sh. C.P. Pathy, SFC Parichha Extn/PTMM Unit, 7th Floor, Shakal Bhanwan Extn. 14, Ashok Marg, Lucknow - 226001
CC	SH. PRADIPAK, R. JHA, SR. DC M (PMG) Project M - parichha, BHEL House, Smt. Poo, New Delhi.
CC	Sh. Charan Jee Singh, Project Manager, Parichha, Room No. 208, Consultancy, R&EO Building, NTPC, Sec-24, NOIDA-201301