



भारतीय प्रौद्योगिकी संस्थान भुवनेश्वर
Indian Institute of Technology Bhubaneswar

F. No. 3-29/2022-Rectt.

Date: 9th June 2023

NOTICE

Sub.: Provisionally shortlisted candidates for Written Test and Skill/Trade Test for the post of Junior Engineer (Electrical)

Ref: Advertisement No. Rectt./01/ Non-Teaching/ 2022 dated. 04/05/2022

This is to notify that the **Written Test and Skill/Trade Test** of the provisionally shortlisted candidates at **Annexure-II** for the post of **Junior Engineer (Electrical)** (1-UR) will be held as per the following schedule & list:

A. Written Test and Skill/Trade Test Schedule and Syllabus		
1	Date of Written Test	26/06/2023 (Monday)
2	Reporting Time	08:00 A.M.
3	Date of Skill/Trade Test	26/06/2023 (Monday)
4	Reporting Time	02.00 P.M.
5	Venue	School of Electrical Sciences Indian Institute of Technology Bhubaneswar, Argul, Khordha, PIN - 752050, Odisha Ph. 0674-7134811/4815
6	Syllabus and other details of Tests	Annexure-I
B. Details of candidates shortlisted / Not shortlisted /hardcopy not received		
1	List of Provisionally shortlisted candidates	Annexure-II
2 (a)	List of candidates not shortlisted based on eligibility criteria	Annexure-III (A)
(b)	List of candidates not shortlisted whose hardcopy of applications has not received within due date i.e. 13/06/2022	Annexure-III (B)

The candidates are also requested to note the followings:

- 1) The shortlisting of applications for the post of **Junior Engineer (Electrical)** at Pay Level-6 has been done for only those candidates whose hardcopies were received at the Institute by the last date i.e. 13.06.2022 as per advertisement.
- 2) The shortlisted candidates listed at Annexure - II are required to appear for the Written Test based on this notification. No individual hard copy of the call letter shall be sent.
- 3) The list of the candidates not fulfilling the eligibility requirements are given in Annexure -III (A) along with the reasons thereof.
- 4) The candidates listed at Annexure-III (A) & III (B) whose applications has not been shortlisted may submit their representation to **recruitment@iitbbs.ac.in** only under the subject "**Representation on rejection of application - Junior Engineer (Electrical)**" within 5.00 P.M. of **14/06/2023**. No further communication shall be entertained, beyond the said date & time.
- 5) The candidates are also advised to visit the Institute website (<http://www.iitbbs.ac.in>) regularly for any further updates.


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Other Instructions for the candidates for appearing for above tests:

1. Candidates are required to produce a Proof of Identity issued by Govt. **(in original)** such as Aadhar Card/Passport/Driving License/PAN Card/Voter Card etc. without which the candidates will not be permitted to appear for the Written Test and Skill/Trade Test. No photocopies of the above documents shall be entertained.
2. Candidates are required to bring all the **original** Educational Certificates, Mark-sheets, testimonials, experience certificates, category certificates (SC/ST/OBC/PWD/EWS), if applicable, and any other relevant documents as mentioned in the Application Form. During actual verification from original documents, if any discrepancy is noticed, candidate(s) will not be allowed to appear for the Written Test and Skill/Trade Test.
3. Candidates are requested to bring a '**No Objection Certificate**' along with **Vigilance Clearance Certificate** from the employer, in case he/she is employed in a Government, Semi-Government, Autonomous Organization including Public Sector Undertakings etc. and whose application has not been forwarded through proper channel by the employer for this post. In the absence of **No Objection Certificate** and / or any other certificate as mentioned above, the candidature shall not be considered.
4. Candidates must report at **8:00 A.M.** sharp in the scheduled date and venue, failing which the candidates will not be allowed to appear in the Written Test and Skill/Trade Test.
5. Electronic gadgets such as Bluetooth, mobile phone, laptop, iPad, Smart watch etc. are not allowed in the examination hall. However, candidates are required to bring writing materials such as Pen, Pencil and non-programming scientific calculator.
6. No TA/DA shall be paid to the candidates for attending the Written Test and Skill/Trade Test. The candidates are advised to make their own arrangement for lodging and boarding to appear the recruitment process.


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Annexure -I

The schedule and syllabus of examination is as follows:-

Written Test for Junior Engineer (Electrical):

A. Syllabus for Written Test:

SI No.	Subject:	Details:
1.	Basic Electrical Engineering:	Ohms and Kirchoff's Laws, star/delta transformation, Network theorems, Power and Energy, Heating effects of Electric current, Illumination, Magnetic effects, Electromagnetic Induction, Electrostatics, Batteries, Types of Electrical Engineering Materials- Conducting, Semi-conducting, Magnetic, Insulating, Dielectric-Properties and Uses.
2.	D.C. Machines:	EMF Equation of DC Generator DC Motors: Principle of operation, Back EMF, Torque Equation, Types, armature reaction. Characteristics, Starters, Speed Control, Losses, Efficiency and Testing.
3.	Measuring instruments:	Classification, Principle of Operation of moving Coil, Moving iron, Dynamometer type, Induction type meters, Instrument Transformers, , Measurement of power by 2 Wattmeters, Induction type Energy meter, Measurement of resistance, Transducers and Sensors- Types, Thermistor, Thermocouple, Pressure Transducers and Strain gauges, Electronic and Digital Instruments.
4.	A.C. Circuits and Transformers:	A.C. Circuits: Fundamentals, Polyphase Circuits Transformer: Single-phase Transformer, Construction, Operation, Equivalent circuit, regulation, efficiency, Testing and Parallel operation, Accessories of Transformers and Cooling, Three-phase Transformers, Auto-Transformers, OLTC, OCTC.
5.	A.C. Machines:	Alternators: Operation, EMF equation, regulation, testing and parallel operation. Synchronous Condenser. Three-Phase induction Motors: Construction, Principle of Operation, Torque Equation, Slip-torque characteristics, Losses, efficiency, speed control, starters. Single Phase Induction Motors: Types, principle of Operation, applications, Single-phase commutator motors: Types, Principle of operation and applications.
6.	Power System Generation & Protection:	Generating Stations: Types of tariffs, Power factor correction and economy. Power Systems protection: Circuit Breakers –Types, Principle of Operation & use, Current limiting reactors Relays: Classification, Principle of operation of induction type over current relay, Over-voltage and under-voltage relays, earth fault relays, Differential relay, Directional & Non-directional relay, distance relays, Statics Relays, Protection of Transformers, feeders.
7.	Transmission and Distribution:	Transmission and distribution: Types of supply system, Transmission line parameters, Inductance and capacitance, regulation, Ferranti effect, Corona. Components of lines, supports, conductor spacing, ground clearance and sag, insulators, voltage distribution across the string, string efficiency, methods of improving string efficiency, Earthing and layout of sub-station. Cables- Classification, insulation resistance, specifications, Distribution-Radial and ring distributors, variation of load voltage

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8.	Electrical Estimation:	Electric Wiring: Tools, Wires, Types of wiring, Accessories, Lamp Circuits, Estimating and costing of domestic, industrial, power irrigation pump sets, overhead lines and 11 KV Sub-stations, Rural electrification, departmental tests, maintenance of electrical machines.
9.	Basic Electronics:	Semiconductor Devices: N type & P type, Zener diode, PNP and NPN Transistors, LDR.
10.	Power Electronics:	Power Electronic Devices: SCR, TRIAC Converters, Inverters
11.	English, Aptitude & Current Affairs.	

Objective Type: 100 Nos. (100 Marks)

Duration: 2 Hours.

25% negative marks for each wrong answer.

B. Skill / Trade Test:


Sl No.	Particulars
1.	Identification of Electrical equipment including switchgear & protective devices, Measurement of Electrical parameters, Electrical control drawing/SLD drawing interpretations and preparations, Fault identification & counter measures, Safety measures, Computer operation skills including MS Office or equivalent, Draft Proposal preparation for the approval of the competent authority, Drawing of SLD/Electrical scheme.

Computer test & skill test: 100 Marks.

Duration: 1. 45 Mins for Computer test
2. 15 Mins for Trade/skill test per candidate

N.B.:

1. Candidates who will be shortlisted in the Written Test would be permitted to appear for Skill/Trade Test on the same day i.e. 26.06.2023.
2. The result will be published in the Institute website.


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Annexure-II

List of **Provisionally Shortlisted** candidates for Written Test and or Skill/Trade Test
for the post of **Junior Engineer (Electrical)**

Sl No.	Application Number	Sl. No.	Application Number
1	NT-040522-685-JEE-0016	42	NT-040522-2303-JEE-0307
2	NT-040522-1397-JEE-0034	43	NT-040522-1796-JEE-0309
3	NT-040522-471-JEE-0036	44	NT-040522-15-JEE-0310
4	NT-040522-1076-JEE-0052	45	NT-040522-7974-JEE-0312
5	NT-040522-1720-JEE-0056	46	NT-040522-4469-JEE-0313
6	NT-040522-2077-JEE-0059	47	NT-040522-7792-JEE-0314
7	NT-040522-2030-JEE-0065	48	NT-040522-7513-JEE-0318
8	NT-040522-1871-JEE-0068	49	NT-040522-5574-JEE-0324
9	NT-040522-2476-JEE-0070	50	NT-040522-4414-JEE-0329
10	NT-040522-2569-JEE-0077		
11	NT-040522-2555-JEE-0078		
12	NT-040522-2686-JEE-0085		
13	NT-040522-3226-JEE-0108		
14	NT-040522-3592-JEE-0125		
15	NT-040522-3920-JEE-0133		
16	NT-040522-3961-JEE-0135		
17	NT-040522-2867-JEE-0142		
18	NT-040522-4153-JEE-0146		
19	NT-040522-3610-JEE-0157		
20	NT-040522-4445-JEE-0158		
21	NT-040522-5270-JEE-0180		
22	NT-040522-5198-JEE-0181		
23	NT-040522-5305-JEE-0182		
24	NT-040522-1254-JEE-0186		
25	NT-040522-5431-JEE-0187		
26	NT-040522-1902-JEE-0196		
27	NT-040522-5922-JEE-0216		
28	NT-040522-6298-JEE-0218		
29	NT-040522-3999-JEE-0221		
30	NT-040522-3501-JEE-0223		
31	NT-040522-6497-JEE-0225		
32	NT-040522-6623-JEE-0230		
33	NT-040522-2918-JEE-0233		
34	NT-040522-6696-JEE-0235		
35	NT-040522-6683-JEE-0236		
36	NT-040522-4354-JEE-0240		
37	NT-040522-3271-JEE-0246		
38	NT-040522-3755-JEE-0264		
39	NT-040522-7392-JEE-0272		
40	NT-040522-7314-JEE-0287		
41	NT-040522-7651-JEE-0292		

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List of Not Shortlisted candidates with rejection criteria for the post of
Junior Engineer (Electrical)

Sl No.	Application Number	Rejection Criteria
1	NT-040522-66-JEE-0004	No relevant experience
2	NT-040522-457-JEE-0007	No relevant experience
3	NT-040522-598-JEE-0008	No relevant experience
4	NT-040522-613-JEE-0009	No relevant experience
5	NT-040522-751-JEE-0015	No relevant experience
6	NT-040522-594-JEE-0019	No relevant experience
7	NT-040522-915-JEE-0020	No relevant experience
8	NT-040522-393-JEE-0023	Over Age
9	NT-040522-1318-JEE-0032	No relevant experience
10	NT-040522-1402-JEE-0035	No relevant experience
11	NT-040522-1496-JEE-0037	No relevant experience
12	NT-040522-1762-JEE-0042	No relevant experience
13	NT-040522-1868-JEE-0045	No relevant experience
14	NT-040522-1788-JEE-0051	No relevant experience
15	NT-040522-1958-JEE-0058	No relevant experience
16	NT-040522-99-JEE-0060	No adequate required experience
17	NT-040522-2078-JEE-0061	No relevant experience
18	NT-040522-2222-JEE-0064	No relevant experience
19	NT-040522-2143-JEE-0067	No relevant experience
20	NT-040522-1975-JEE-0071	No adequate required experience
21	NT-040522-2292-JEE-0072	No relevant experience
22	NT-040522-2339-JEE-0073	No relevant experience
23	NT-040522-2464-JEE-0074	No relevant experience
24	NT-040522-2532-JEE-0076	No relevant experience
25	NT-040522-2607-JEE-0079	No relevant experience
26	NT-040522-842-JEE-0081	No relevant experience
27	NT-040522-2762-JEE-0088	No relevant experience
28	NT-040522-2905-JEE-0091	No relevant experience
29	NT-040522-2986-JEE-0094	No relevant experience
30	NT-040522-2570-JEE-0098	No relevant experience
31	NT-040522-3051-JEE-0100	No relevant experience, Over age
32	NT-040522-3094-JEE-0101	No relevant experience
33	NT-040522-3095-JEE-0102	No adequate required experience
34	NT-040522-3146-JEE-0104	No relevant experience
35	NT-040522-3219-JEE-0107	No relevant experience
36	NT-040522-3236-JEE-0109	No relevant experience
37	NT-040522-3117-JEE-0110	No relevant experience
38	NT-040522-3264-JEE-0111	No relevant experience
39	NT-040522-2170-JEE-0112	No relevant experience
40	NT-040522-3291-JEE-0113	No adequate required experience
41	NT-040522-3105-JEE-0116	No relevant experience
42	NT-040522-3398-JEE-0117	No relevant experience

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Sl No.	Application Number	Rejection Criteria
43	NT-040522-3411-JEE-0118	No relevant experience
44	NT-040522-2458-JEE-0119	No adequate required experience
45	NT-040522-3462-JEE-0122	No adequate required experience
46	NT-040522-1504-JEE-0124	No relevant experience
47	NT-040522-3305-JEE-0128	No adequate required experience
48	NT-040522-3423-JEE-0131	No relevant experience
49	NT-040522-3400-JEE-0140	No relevant experience
50	NT-040522-2510-JEE-0147	No relevant experience
51	NT-040522-4208-JEE-0148	Over Age
52	NT-040522-4221-JEE-0149	No relevant experience, Over age
53	NT-040522-2953-JEE-0150	No relevant experience
54	NT-040522-4244-JEE-0151	No relevant experience
55	NT-040522-4338-JEE-0154	No relevant experience
56	NT-040522-4651-JEE-0160	No relevant experience
57	NT-040522-4641-JEE-0161	Over Age
58	NT-040522-479-JEE-0165	No adequate required experience
59	NT-040522-3408-JEE-0166	No relevant experience
60	NT-040522-5059-JEE-0173	No relevant experience
61	NT-040522-4002-JEE-0177	No relevant experience
62	NT-040522-1162-JEE-0178	No adequate required experience
63	NT-040522-4475-JEE-0179	No relevant experience
64	NT-040522-3799-JEE-0185	No relevant experience
65	NT-040522-3380-JEE-0189	No relevant experience
66	NT-040522-5371-JEE-0195	No relevant experience
67	NT-040522-1146-JEE-0197	No relevant experience
68	NT-040522-3143-JEE-0200	No relevant experience
69	NT-040522-5811-JEE-0201	No relevant experience
70	NT-040522-1055-JEE-0209	No relevant experience
71	NT-040522-5210-JEE-0210	No relevant experience
72	NT-040522-5886-JEE-0212	No relevant experience
73	NT-040522-6131-JEE-0213	Non-Submission of required documents
74	NT-040522-2870-JEE-0219	No relevant experience
75	NT-040522-354-JEE-0220	No relevant experience
76	NT-040522-5967-JEE-0222	No relevant experience
77	NT-040522-875-JEE-0228	No relevant experience
78	NT-040522-1549-JEE-0231	No relevant experience
79	NT-040522-6680-JEE-0234	No adequate required experience
80	NT-040522-1693-JEE-0237	No relevant experience
81	NT-040522-6642-JEE-0239	No relevant experience
82	NT-040522-6489-JEE-0241	No relevant experience
83	NT-040522-6800-JEE-0244	No relevant experience
84	NT-040522-6878-JEE-0247	No relevant experience
85	NT-040522-3572-JEE-0248	No relevant experience
86	NT-040522-6817-JEE-0253	No relevant experience
87	NT-040522-1103-JEE-0254	No relevant experience
88	NT-040522-7110-JEE-0255	No relevant experience
89	NT-040522-849-JEE-0256	No relevant experience
90	NT-040522-7177-JEE-0260	Non-Submission of required documents
91	NT-040522-199-JEE-0262	No relevant experience



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Sl No.	Application Number	Rejection Criteria
92	NT-040522-7210-JEE-0263	No relevant experience
93	NT-040522-6328-JEE-0265	No relevant experience
94	NT-040522-144-JEE-0269	Over Age
95	NT-040522-7107-JEE-0276	No relevant experience
96	NT-040522-4269-JEE-0278	No relevant experience
97	NT-040522-3347-JEE-0280	Over Age
98	NT-040522-2631-JEE-0281	No relevant experience
99	NT-040522-6935-JEE-0282	Non-Submission of required documents
100	NT-040522-7620-JEE-0286	No relevant experience
101	NT-040522-3882-JEE-0289	No relevant experience
102	NT-040522-7742-JEE-0290	No adequate required experience
103	NT-040522-7795-JEE-0293	No relevant experience
104	NT-040522-7777-JEE-0298	No relevant experience
105	NT-040522-7174-JEE-0301	No relevant experience
106	NT-040522-7877-JEE-0304	No relevant experience
107	NT-040522-4333-JEE-0311	No adequate required experience
108	NT-040522-4916-JEE-0317	No relevant experience
109	NT-040522-8146-JEE-0321	Over Age
110	NT-040522-8025-JEE-0325	Over Age
111	NT-040522-7502-JEE-0336	No relevant experience
112	NT-040522-8353-JEE-0344	No relevant experience
113	NT-040522-7872-JEE-0346	No adequate required experience

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Annexure-III (B)

List of candidates whose hardcopy of applications has not received within due date i.e.
13/06/2022

Sl. No.	Application Number	Sl. No.	Application Number	Sl. No.	Application Number
1	NT-040522-128-JEE-0002	44	NT-040522-2709-JEE-0127	87	NT-040522-7136-JEE-0258
2	NT-040522-233-JEE-0003	45	NT-040522-3777-JEE-0129	88	NT-040522-2191-JEE-0259
3	NT-040522-669-JEE-0012	46	NT-040522-3876-JEE-0130	89	NT-040522-6831-JEE-0261
4	NT-040522-642-JEE-0013	47	NT-040522-3905-JEE-0132	90	NT-040522-3542-JEE-0267
5	NT-040522-844-JEE-0017	48	NT-040522-3944-JEE-0134	91	NT-040522-1010-JEE-0270
6	NT-040522-633-JEE-0018	49	NT-040522-4057-JEE-0139	92	NT-040522-7401-JEE-0271
7	NT-040522-944-JEE-0021	50	NT-040522-1311-JEE-0143	93	NT-040522-7406-JEE-0273
8	NT-040522-951-JEE-0022	51	NT-040522-436-JEE-0144	94	NT-040522-7099-JEE-0274
9	NT-040522-1107-JEE-0026	52	NT-040522-4252-JEE-0152	95	NT-040522-3359-JEE-0275
10	NT-040522-1155-JEE-0027	53	NT-040522-4410-JEE-0156	96	NT-040522-7475-JEE-0277
11	NT-040522-1233-JEE-0029	54	NT-040522-4484-JEE-0159	97	NT-040522-7630-JEE-0283
12	NT-040522-1313-JEE-0030	55	NT-040522-4675-JEE-0162	98	NT-040522-7647-JEE-0284
13	NT-040522-1329-JEE-0033	56	NT-040522-4767-JEE-0168	99	NT-040522-7649-JEE-0285
14	NT-040522-1564-JEE-0038	57	NT-040522-4384-JEE-0170	100	NT-040522-7481-JEE-0288
15	NT-040522-1724-JEE-0039	58	NT-040522-5162-JEE-0175	101	NT-040522-7738-JEE-0291
16	NT-040522-1669-JEE-0040	59	NT-040522-2440-JEE-0176	102	NT-040522-5739-JEE-0294
17	NT-040522-691-JEE-0041	60	NT-040522-4954-JEE-0183	103	NT-040522-7815-JEE-0295
18	NT-040522-1805-JEE-0043	61	NT-040522-5530-JEE-0190	104	NT-040522-7782-JEE-0296
19	NT-040522-1561-JEE-0047	62	NT-040522-5418-JEE-0191	105	NT-040522-7840-JEE-0297
20	NT-040522-1957-JEE-0049	63	NT-040522-5753-JEE-0199	106	NT-040522-7838-JEE-0299
21	NT-040522-1252-JEE-0050	64	NT-040522-5329-JEE-0202	107	NT-040522-6870-JEE-0302
22	NT-040522-2067-JEE-0057	65	NT-040522-5826-JEE-0203	108	NT-040522-7865-JEE-0303
23	NT-040522-2130-JEE-0062	66	NT-040522-3568-JEE-0204	109	NT-040522-1513-JEE-0305
24	NT-040522-1025-JEE-0066	67	NT-040522-5939-JEE-0205	110	NT-040522-1231-JEE-0306
25	NT-040522-2036-JEE-0069	68	NT-040522-5965-JEE-0206	111	NT-040522-7942-JEE-0308
26	NT-040522-1192-JEE-0075	69	NT-040522-5984-JEE-0207	112	NT-040522-5646-JEE-0315
27	NT-040522-2539-JEE-0082	70	NT-040522-6003-JEE-0208	113	NT-040522-4100-JEE-0316
28	NT-040522-2103-JEE-0084	71	NT-040522-6011-JEE-0211	114	NT-040522-4430-JEE-0322
29	NT-040522-2707-JEE-0086	72	NT-040522-6130-JEE-0214	115	NT-040522-6876-JEE-0323
30	NT-040522-2847-JEE-0089	73	NT-040522-271-JEE-0215	116	NT-040522-8171-JEE-0326
31	NT-040522-1484-JEE-0090	74	NT-040522-6427-JEE-0224	117	NT-040522-1304-JEE-0327
32	NT-040522-2927-JEE-0092	75	NT-040522-2152-JEE-0226	118	NT-040522-5950-JEE-0328
33	NT-040522-2959-JEE-0093	76	NT-040522-6506-JEE-0227	119	NT-040522-8215-JEE-0331
34	NT-040522-2989-JEE-0095	77	NT-040522-6621-JEE-0229	120	NT-040522-8212-JEE-0332
35	NT-040522-50-JEE-0099	78	NT-040522-6648-JEE-0232	121	NT-040522-6370-JEE-0333
36	NT-040522-3132-JEE-0103	79	NT-040522-6607-JEE-0238	122	NT-040522-8272-JEE-0335
37	NT-040522-3160-JEE-0105	80	NT-040522-3173-JEE-0243	123	NT-040522-8211-JEE-0337
38	NT-040522-2982-JEE-0106	81	NT-040522-6850-JEE-0245	124	NT-040522-8287-JEE-0338
39	NT-040522-3303-JEE-0114	82	NT-040522-7030-JEE-0249	125	NT-040522-5704-JEE-0339
40	NT-040522-3270-JEE-0115	83	NT-040522-4603-JEE-0250	126	NT-040522-6819-JEE-0340
41	NT-040522-2290-JEE-0120	84	NT-040522-7072-JEE-0251	127	NT-040522-8221-JEE-0341
42	NT-040522-2756-JEE-0123	85	NT-040522-7083-JEE-0252	128	NT-040522-8315-JEE-0342
43	NT-040522-3640-JEE-0126	86	NT-040522-7125-JEE-0257	129	NT-040522-8312-JEE-0343
				130	NT-040522-7975-JEE-0345
				131	NT-040522-8359-JEE-0347

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IIT Bhubaneswar