

**GOVERNMENT OF WEST BENGAL  
DIRECTORATE OF PUBLIC HEALTH ENGINEERING  
OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER  
SUPPLY DIVISION-I  
ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR  
TANK NO-I  
NEW TOWN, RAJARHAT, KOLKATA – 700 156**

**WATER QUALITY ANALYSIS REPORT AT DIFFERENT  
LOCATIONS OF NEW TOWN KOLKATA PROJECT, DURING  
MONTH  
JUNE' 2018**

**ACTION AREA – I**  
**(JUNE'2018)**

GOVERNMENT OF WEST BENGAL  
DIRECTORATE OF PUBLIC HEALTH ENGINEERING  
OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I  
ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I  
NEW TOWN, RAJARHAT, KOLKATA – 700 156

**TEST REPORT: ACTION AREA - I, ZONE – VI**

Sub. : Water Testing (Physico-chemical & Chemical)

Date of Testing: 11.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)				
				ZONE - VI				
				INLET OF O.H.R.	OUTLET OF O.H.R.	CE /1/A/138	CE /1/C/139	CE -74
<b>A. Physico - chemical Test Results:</b>								
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.34	7.58	7.64	7.70	7.76
2	Temperature(degree C)	----	----	25.7	26.0	25.8	25.8	25.6
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	156.2	157.5	156.3	155.8	156.0
4	Turbidity (NTU)	1/1	5/10	1.34	1.74	1.69	1.27	1.38
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.2	0.3	0.2	0.1	0.1
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results:</b>								
7	Total Hardness (mg/L)	200/200	600/600	146.88	142.80	146.88	146.88	142.80
8	Total Alkalinity (mg/L)	200/200	600/600	128.96	124.80	124.80	124.80	124.80
10	Iron(as Fe), mg/L	0.3/0.1	0.3/1.0	<0.03	<0.03	<0.03	<0.03	<0.03
11	Fluoride, mg/L	1/1	1.5/1.5	<0.1	<0.1	<0.1	<0.1	<0.1
12	Chloride (mg/L)	250/200	1000/1000	19.43	19.43	19.43	19.43	19.43
<b>C. Bacteriological Test Results:</b>								
13	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.
14	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.

O.H.R. - OVER HEAD RESERVOIR, N.F. - NOT FOUND

Sd/-  
Chemist & Bacteriologist  
Central Water Testing Laboratory  
NTKD – I, P.H.E. Dte.

GOVERNMENT OF WEST BENGAL  
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ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I  
NEW TOWN, RAJARHAT, KOLKATA – 700 156

**TEST REPORT: AA – I, ZONE – III**  
**Sub. : Water Testing (Physico-chemical & Chemical)**

Date of Testing: 11.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)				
				ZONE - III				
				INLET OF O.H.R.	OUTLET OF O.H.R.	NBCC	AK-50	AL /I/C/40
<b>A. Physico-chemical Test Results :</b>								
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.62	7.66	7.79	7.72	7.66
2	Temperature(degree C)	----	----	25.5	25.3	25.5	25.5	25.4
3	Total Dissolved Solid.	500/500	2000/2000	154.6	154.7	155.7	155.4	154.4
4	Turbidity, (NTU)	1/1	5/10	1.40	1.30	1.22	1.34	1.33
5	Residual Free Chlorine	0.2/0.2	0.2/>1.0	0.4	0.3	0.1	0.1	0.1
6	Odour	Agreeable/Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results :</b>								
7	Total Hardness, (mg/L)	200/200	600/600	150.96	146.88	146.88	146.88	146.88
8	Total Alkalinity, (mg/L)	200/200	600/600	133.12	128.96	128.96	133.12	133.12
10	Iron(as Fe), mg/L	0.3/0.1	0.3/1.0	<0.03	<0.03	<0.03	<0.03	<0.03
11	Fluoride, mg/L	1/1	1.5/1.5	<0.1	<0.1	<0.1	<0.1	<0.1
12	Chloride (mg/L)	250/200	1000/1000	19.43	19.43	19.43	19.43	19.43
<b>C. Bacteriological Test Results :</b>								
13	Total Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.
14	Fecal Coliform (CFU/100 ml)	Absent/Absent	Absent/Absent	N.F.	N.F.	N.F.	N.F.	N.F.

O.H.R. – OVER HEAD RESERVOIR, N.F. – NOT FOUND

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ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I  
NEW TOWN, RAJARHAT, KOLKATA – 700 156

**TEST REPORT: ACTION AREA -I, ZONE - I**

Sub. : Water Testing (Physico-chemical & Chemical)

Date of Testing: 18.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)				
				ZONE - I				
				INLET OF O.H.R.	OUTLET OF O.H.R.	AD - 26	AD - 1	AC - 107
<b>A. Physico-chemical Test Results:</b>								
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.30	7.34	7.40	7.46	7.47
2	Temperature(degree C)	----	----	29.3	29.5	29.6	29.5	29.6
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	147.9	148.3	147.2	146.5	146.7
4	Conductivity (µS/cm)	----	----	296	297	294	293	293
5	Turbidity (NTU)	1/1	5/10	2.72	1.81	1.55	1.75	1.41
6	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.1	0.2	0.2	0.1	0.2
7	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results:</b>								
8	Total Hardness (mg/L)	200/200	600/600	124.20	120.06	124.20	124.20	124.20
9	Total Alkalinity (mg/L)	200/200	600/600	112.56	108.54	112.56	112.56	112.56

O.H.R. – OVER HEAD RESERVOIR

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NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA -I, ZONE - II

Sub. : Water Testing (Physico-chemical & Chemical)

Date of Testing: 19.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)				
				ZONE - II				
				INLET OF O.H.R.	OUTLET OF O.H.R.	NEW TOWN BUS TERMINUS	BA-120	AB-13
<b>A. Physico-chemical Test Results:</b>								
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.09	7.36	7.36	7.37	7.39
2	Temperature(degree C)	----	----	28.3	28.9	28.6	28.6	28.3
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	146.7	146.0	146.3	146.1	146.1
4	Conductivity (µS/cm)	----	----	293	292	293	292	292
5	Turbidity (NTU)	1/1	5/10	1.16	1.36	1.36	1.27	1.64
6	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.3	0.2	0.1	0.1	0.15
7	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results:</b>								
8	Total Hardness (mg/L)	200/200	600/600	122.64	118.55	122.64	122.64	118.55
9	Total Alkalinity (mg/L)	200/200	600/600	104.52	100.50	104.52	104.52	100.50

O.H.R. – OVER HEAD RESERVOIR

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NEW TOWN, RAJARHAT, KOLKATA – 700 156

**TEST REPORT: ACTION AREA -I, ZONE - IV**

Sub. : Water Testing (Physico-chemical & Chemical)

Date of Testing: 20.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)				
				ZONE - IV				
				INLET OF O.H.R.	OUTLET OF O.H.R.	SENIOR CITIZEN PARK	BE-17	BB-50
<b>A. Physico-chemical Test Results:</b>								
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.21	7.46	7.53	7.54	7.56
2	Temperature(degree C)	----	----	28.3	28.3	28.3	28.1	28.2
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	146.9	146.5	146.2	148.9	145.5
4	Conductivity (µS/cm)	----	----	294	293	292	298	291
5	Turbidity (NTU)	1/1	5/10	1.77	1.36	1.78	1.58	1.70
6	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.05	0.05	0.1	0.05	0.05
7	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results:</b>								
8	Total Hardness (mg/L)	200/200	600/600	118.55	114.46	114.46	118.55	118.55
9	Total Alkalinity (mg/L)	200/200	600/600	104.52	100.50	104.52	104.52	104.52

O.H.R. – OVER HEAD RESERVOIR

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NEW TOWN, RAJARHAT, KOLKATA – 700 156

**TEST REPORT: ACTION AREA - I, ZONE – VI**

Sub. : Water Testing (Physico-chemical & Chemical)

Date of Testing: 22.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)				
				ZONE - VI				
				INLET OF O.H.R.	OUTLET OF O.H.R.	NBCC	CE /1/C/139	CE -74
<b>A. Physico - chemical Test Results:</b>								
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.33	7.36	7.39	7.43	7.44
2	Temperature(degree C)	----	----	27.9	28.1	27.9	27.6	27.5
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	144.7	144.9	146.4	144.6	148.1
4	Turbidity (NTU)	1/1	5/10	1.62	1.48	1.52	1.44	1.70
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.05	0.1	0.1	0.1	0.05
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results:</b>								
7	Total Hardness (mg/L)	200/200	600/600	118.55	114.46	118.55	114.46	118.55
8	Total Alkalinity (mg/L)	200/200	600/600	96.48	92.46	96.48	96.48	92.46

O.H.R. - OVER HEAD RESERVOIR,

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ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I  
NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – I, ZONE – III  
Sub. : Water Testing (Physico-chemical & Chemical)

Date of Testing: 22.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)				
				ZONE - III				
				INLET OF O.H.R.	OUTLET OF O.H.R.	NKDA	AXIS MALL	AL /1/C/40
<b>A. Physico-chemical Test Results :</b>								
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.12	7.36	7.38	7.39	7.40
2	Temperature(degree C)	----	----	27.6	27.3	27.2	27.2	27.5
3	Total Dissolved Solid.	500/500	2000/2000	144.3	145.9	144.9	144.2	144.4
4	Turbidity, (NTU)	1/1	5/10	1.60	2.34	1.41	1.47	1.46
5	Residual Free Chlorine	0.2/0.2	0.2/>1.0	0.4	0.1	0.1	0.1	0.1
6	Odour	Agreeable/Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results :</b>								
7	Total Hardness, (mg/L)	200/200	600/600	114.46	110.38	110.38	110.38	110.38
8	Total Alkalinity, (mg/L)	200/200	600/600	100.5	96.48	96.48	96.48	96.48

O.H.R. – OVER HEAD RESERVOIR

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NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: ACTION AREA - I, ZONE – V

Sub. : Water Testing (Physico-chemical & Chemical)

Date of Testing: 27.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)				
				ZONE - V				
				INLET OF O.H.R.	OUTLET OF O.H.R.	CC-201	CD-125	CB-08
<b>A. Physico - chemical Test Results:</b>								
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.35	7.42	7.43	7.45	7.46
2	Temperature(degree C)	----	----	25.2	25.4	25.4	25.2	25.0
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	143.8	142.9	142.6	142.0	142.3
4	Conductivity (µS/cm)	----	----	288	286	285	284	285
5	Turbidity (NTU)	1/1	5/10	0.99	2.19	1.33	1.42	1.19
6	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	0.1	0.15	0.1	0.05	0.1
7	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results:</b>								
8	Total Hardness (mg/L)	200/200	600/600	118.55	114.46	114.46	110.38	114.46
9	Total Alkalinity (mg/L)	200/200	600/600	96.48	96.48	92.46	96.48	96.48

O.H.R. - OVER HEAD RESERVOIR,

Sd/-  
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NEW TOWN, RAJARHAT, KOLKATA – 700 156

**TEST REPORT: AA – I, ZONE – VII & VIII**  
Sub. : Water Testing (Physico-chemical, Chemical )

Date of Testing: 29.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)							
				ZONE - VII			ZONE - VIII				
				OUTLET OF O.H.R.	DC - 57	DF - 94	INLET OF O.H.R.	OUTLET OF O.H.R.	DA - 30	DA - 136	DC - 23
<b>A. Physico-chemical Test Results:</b>											
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.56	7.56	7.48	7.28	7.38	7.53	7.55	7.54
2	Temperature(degree C)	----	----	24.6	24.4	24.2	26.8	26.6	26.5	26.4	26.5
3	Total Dissolved Solid. (mg/L)	500/500	2000/2000	140	143	142	142	143	141	140	141
4	Turbidity, (NTU)	1/1	5/10	1.32	1.20	1.30	1.09	1.27	1.30	1.13	1.24
5	Residual Free Chlorine, (mg/L)	0.2/0.2	0.2/>1.0	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.05
6	Odour	Agreeable/Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results:</b>											
7	Total Hardness, (mg/L)	200/200	600/600	114.13	110.05	114.13	122.28	122.28	118.20	114.13	118.20
8	Total Alkalinity, (mg/L)	200/200	600/600	92.46	96.48	100.50	100.50	96.48	92.46	92.46	92.46

O.H.R. – OVER HEAD RESERVOIR

Sd/  
Chemist  
Central Water Testing Laboratory  
NTKD - I P.H.E. Dte.

**ACTION AREA – II**  
**(JUNE' 2018)**

GOVERNMENT OF WEST BENGAL  
DIRECTORATE OF PUBLIC HEALTH ENGINEERING  
OFFICE OF THE EXECUTIVE ENGINEER, NEW TOWN KOLKATA WATER SUPPLY DIVISION-I  
ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I  
NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – II C, ZONE – I  
Sub. : Water Testing (Physico-chemical, Chemical)

Date of Testing: 07.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)					
				AA – IIC, ZONE - I					
				INLET OF O.H.R.	OUTLET OF O.H.R.	AKANKHA	STARL IT COMPLEX	MOON BEAM	HILAND WOODS
<b>A. Physico-chemical Test Results:</b>									
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.51	7.63	7.67	7.69	7.72	7.71
2	Temperature (degree C)	----	----	31.5	31.2	31.5	31.3	31.6	31.8
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	164	163	162.5	162.5	163	163.5
4	Turbidity (NTU)	1/1	5/10	1.62	1.65	1.64	1.70	1.57	1.60
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	<0.01	0.4	0.2	0.3	0.35	0.25
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results:</b>									
7	Total Hardness (mg/L)	200/200	600/600	133.45	129.41	125.36	125.36	129.41	129.41
8	Total Alkalinity (mg/L)	200/200	600/600	116.58	112.56	108.54	108.54	112.56	112.56

O.H.R. – OVER HEAD RESERVOIR

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ADMINISTRATIVE BUILDING, WATER TREATMENT PLANT SITE, NEAR TANK NO-I  
NEW TOWN, RAJARHAT, KOLKATA – 700 156

TEST REPORT: AA – IID, ZONE – VI & V  
Sub. : Water Testing (Physico-chemical, Chemical)

Date of Testing: 07.06.18

Sl. No	Characteristic	Requirement (Acceptable Limit) (IS 10500-2012)/ (CPHEEO)	Permissible Limit (IS 10500-2012)/ (CPHEEO)	SOURCE (PHE SUPPLY)									
				AA – IID, ZONE - VI				AA – IID, ZONE - V					
				INLET OF O.H.R.	OUTLET OF O.H.R.	SHRACHI GREEN WOOD ELEMENT	GREEN FIELD AMBITIO N	INLET OF O.H.R.	OUTLET OF O.H.R.	ALATIKA	UTTARA	GREEN WOOD SONATA	UJJALA
<b>A. Physico-chemical Test Results:</b>													
1	pH Value.	6.5 to 8.5/7.0 to 8.5	6.5 to 8.5/6.5 to 9.2	7.68	7.74	7.73	7.75	7.74	7.78	7.76	7.76	7.73	7.75
2	Temperature (degree C)	----	----	31.5	31.2	31.7	31.8	31.1	31.3	31.2	31.4	31.2	31.6
3	Total Dissolved Solid (mg/L)	500/500	2000/2000	163	162.5	163	164	162.2	162.5	163.2	162.3	162.6	161.8
4	Turbidity (NTU)	1/1	5/10	1.95	1.71	1.68	1.93	1.69	1.61	1.65	1.80	1.49	1.75
5	Residual Free Chlorine (mg/L)	0.2/0.2	0.2/>1.0	<0.01	0.4	0.3	0.25	0.1	0.45	0.35	0.4	0.3	0.3
6	Odour	Agreeable/ Agreeable	Agreeable/ Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
<b>B. Chemical Test Results:</b>													
7	Total Hardness (mg/L)	200/200	600/600	129.41	125.36	125.36	133.45	142.80	138.72	138.72	138.72	142.80	142.80
8	Total Alkalinity (mg/L)	200/200	600/600	108.54	108.54	112.56	116.58	128.96	124.80	128.96	124.80	124.80	124.80

O.H.R. – OVER HEAD RESERVOIR

Sd/-  
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NTKD-I, P.H.E. Dte.