

TSK SYNERGY SDN BHD (Co.Reg. 1332839-T)

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI DAERAH JOHOR
BAHRU,KULAI,PONTIAN,KOTA TINGGI DAN MERSING (PAKEJ 2) ("WORKS") - PTN11

PROGRESS CLAIM NO 2

To : JALUR CAHAYA SDN BHD
No 265A, Pusat Komersial Indah,
Jalan Kiambang 10,
Bandar Indahpura,
81000, Kulai, Johor

Contract No : PAAB/J082-P2/W/J/K/06/22

No	Description	Amount Contract (RM)	Previous (RM)	Current (RM)	To Date (RM)
1	Contract Sum	8,229,120.30	29,746.32	343,735.34	373,481.66
	Total Contract	8,229,120.30			373,481.66
2	<u>LESS</u> Retention Sum (5%) IPC NO 1	411,456.02	2,974.63	34,373.53	37,348.17
	Total Retention	411,456.02			37,348.17
3	Variation Order	-		-	-
	Total VO				-
4	Less Previous IPC IPC NO 1		26,771.69		26,771.69
	Total Previous (RM)	-		-	26,771.69
	FINAL AMOUNT				309,361.80

AMOUNT : THREE HUNDRED NINE THOUSAND THREE HUNDRED SIXTY ONE AND EIGHTY.

Prepare By:

Certified By:

Certified By:

Mariam Norani

Tengku Muhaini

Name, Date & Chop

PROGRAM PENGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING (PAKEJ 2) ("WORKS") - PTN 11
BILLS OF QUANTITY

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	AMOUNT		PREVIOUS CLAIM		CURRENT CLAIM		CUMMULATIVE	
				RATE (RM)	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)
1	Site Clearance	sq.m	620	1.00	620.00	151.40	151.40	4,917.90	4,917.90	5,069.30	5,069.30
2	Bulk excavation	cu.m	30	30.00	900.00		-	-	-	-	-
3	EO for exc. in rock	cu.m	1	40.00	40.00		-	-	-	-	-
4	Prepare, spread & compact exc mtl's item PTN10.2 to fill ground to levels	cu.m	3	20.00	60.00		-	-	-	-	-
5	Trench exc - 63mm ND & below ne 1.8m	m	3000	12.00	36,000.00		-	-	-	-	-
6	Trench exc - 125mm ND & below ne 1.8m	m	8414	16.00	134,624.00	77.40	1,238.40	666.00	10,656.00	743.40	11,894.40
7	Trench exc - 180mm ND & below ne 1.8m	m	30218	18.00	543,924.00	382.00	6,876.00	4,066.50	73,197.00	4,448.50	80,073.00
8	Trench exc - 200mm ND & below ne 1.8m	m		20.00	-		-	-	-	-	-
9	Trench exc - 250mm ND & below ne 1.8m	m	593	24.00	14,232.00		-	-	-	-	-
10	Trench exc - 315mm ND & below ne 1.8m	m		28.00	-		-	-	-	-	-
11	Trench exc - 355mm ND & below ne 1.8m	m		30.00	-		-	-	-	-	-
12	EO for road cutting	m	11167	8.00	89,336.00		-	94.00	752.00	94.00	752.00
13	Ditto - exc in tracks, gravel and earth road	sq.m	28	10.00	280.00	15.88	158.80	227.23	2,272.30	243.11	2,431.10
14	Ditto - exc in concrete kerb	sq.m		20.00	-		-	-	-	-	-
15	Ditto - cross hedges, fences, signboard & wall	sq.m	10	15.00	150.00		-	-	-	-	-
16	Ditto - cross under water courses & earth drain	sq.m	42	20.00	840.00	0.54	10.80	-	-	0.54	10.80
17	Ditto - cross under concrete drains & culvert	sq.m	15	25.00	375.00		-	-	-	-	-
18	Ditto - exc in high water level	sq.m	1630	12.00	19,560.00	81.54	978.48	1,889.45	22,673.40	1,970.99	23,651.88
19	Ditto - exc in rock	cu.m	1	40.00	40.00		-	-	-	-	-
20	Remove unsuitable mtl's	cu.m	6	20.00	120.00		-	97.50	1,950.00	97.50	1,950.00
21	Incidental exc in all mtl's	cu.m	105	30.00	3,150.00	1.20	36.00	14.90	447.00	16.10	483.00
22	EO for exc in rock	cu.m	6	40.00	240.00		-	-	-	-	-
23	Supply, fill & compact wash sand	cu.m	9475	52.00	492,700.00	107.72	5,601.44	1,116.97	58,082.44	1,224.69	63,683.88
24	Supply, fill & compact suitable imported mtl's	cu.m	75	28.00	2,100.00		-	-	-	-	-
25	Supply, spread & compact road verges with laterite earth to original thk or min of 150mm	sq.m	163	12.00	1,956.00		-	-	-	-	-
26	Supply fix PC slab G25 Pipe OD + 450 x 300(W) x 100 (H)	no	60	20.00	1,200.00	5.00	100.00	-	-	5.00	100.00
27	Supply, spread & compact crusher run 450mm thk	sq.m	8253	30.00	247,590.00	68.50	2,055.00	992.16	29,764.80	1,060.66	31,819.80
28	Supply & lay interlocking (Hexagon)	sq.m		80.00	-		-	-	-	-	-
29	Temporary Cold Mix metalled road	sq.m		30.00	-		-	-	-	-	-
30	Supply, spread & compact 70mm thk binder coarse	sq.m	5894	30.00	176,820.00		-	-	-	-	-
31	Supply spread & compact 50mm thk wearing coarse	sq.m	45630	27.00	1,232,010.00		-	33.90	915.30	33.90	915.30
32	Mill & resurfacing with wearing coarse 50mm thk	sq.m	8500	30.00	255,000.00		-	-	-	-	-
33	Road line marking / parking lot/ painting	m	50	2.50	125.00		-	-	-	-	-
34	Single line 100mm width	m	50	2.50	125.00		-	-	-	-	-
35	Double line 100mm width	m	50	4.00	200.00		-	-	-	-	-
36	Supply & spread top soil 100m	sq.m	55	3.00	165.00		-	-	-	-	-
37	Spot turf	sq.m	30	3.00	90.00		-	-	-	-	-
38	Close turf	sq.m	25	4.00	100.00		-	-	-	-	-
39	HDPE PE100 Pipes 63mm ND	m	3000	12.00	36,000.00		-	-	-	-	-
40	HDPE PE100 Pipes 125mm ND	m	7615	22.00	167,530.00	77.00	1,694.00	666.00	14,652.00	743.00	16,346.00
41	HDPE PE100 Pipes 180mm ND	m	30425	28.00	851,900.00	382.00	10,696.00	4,064.90	113,817.20	4,446.90	124,513.20
42	HDPE PE100 Pipes 250mm ND	m	300	38.00	11,400.00		-	-	-	-	-
43	HDPE PE100 Pipes 315mm ND	m		48.00	-		-	-	-	-	-
44	HDPE PE100 Pipes 355mm ND	m		52.00	-		-	-	-	-	-
45	Stub end 63mm ND	no	1	30.00	30.00		-	-	-	-	-
46	Stub end 125mm ND	no	27	30.00	810.00	1.00	30.00	-	-	1.00	30.00
47	Stub end 180mm ND	no	82	30.00	2,460.00		-	3.00	90.00	3.00	90.00
48	Stub end 250mm ND	no	6	45.00	270.00		-	-	-	-	-
49	Stub end 315mm ND	no		55.00	-		-	-	-	-	-
50	Stub end 355mm ND	no		65.00	-		-	-	-	-	-
51	Electrofusion 45 deg 63mm ND	no		30.00	-		-	-	-	-	-
52	Electrofusion 45 deg 125mm ND	no	4	30.00	120.00		-	-	-	-	-
53	Electrofusion 45 deg 180mm ND	no	8	30.00	240.00		-	-	-	-	-
54	Electrofusion 45 deg 250mm ND	no	1	45.00	45.00		-	-	-	-	-
55	Electrofusion 45 deg 315mm ND	no		55.00	-		-	-	-	-	-
56	Electrofusion 45 deg 355mm ND	no		65.00	-		-	-	-	-	-
57	Spigot 45 deg 63mm ND	no		30.00	-		-	-	-	-	-
58	Spigot 45 deg 125mm ND	no	8	30.00	240.00		-	-	-	-	-
59	Spigot 45 deg 180mm ND	no	14	30.00	420.00		-	4.00	120.00	4.00	120.00
60	Spigot 45 deg 250mm ND	no	1	45.00	45.00		-	-	-	-	-
61	Spigot 45 deg 315mm ND	no		55.00	-		-	-	-	-	-
62	Spigot 45 deg 355mm ND	no		65.00	-		-	-	-	-	-

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DAN MERSING (PAKEJ 2) ("WORKS") - PTN 11
BILLS OF QUANTITY**

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	AMOUNT		PREVIOUS CLAIM		CURRENT CLAIM		CUMMULATIVE	
				RATE (RM)	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)
63	Electrofusion 90 deg 125mm ND	no	5	30.00	150.00		-	-	-	-	-
64	Electrofusion 90 deg 180mm ND	no	2	30.00	60.00		-	-	-	-	-
65	Electrofusion 90 deg 250mm ND	no	1	45.00	45.00		-	-	-	-	-
66	Electrofusion 90 deg 315mm ND	no		55.00	-		-	-	-	-	-
67	Spigot 90 deg 125mm ND	no	1	30.00	30.00		-	-	-	-	-
68	Spigot 90 deg 180mm ND	no	1	30.00	30.00		-	-	-	-	-
69	Spigot 90 deg 250mm ND	no	1	45.00	45.00		-	-	-	-	-
70	Spigot 90 deg 315mm ND	no		55.00	-		-	-	-	-	-
71	Spigot 90 deg 355mm ND	no		65.00	-		-	-	-	-	-
72	Spigot equal tees 125mm ND x 125mm ND	no	9	30.00	270.00	1.00	30.00	-	-	1.00	30.00
73	Spigot equal tees 180mm ND x 180mm ND	no	17	30.00	510.00		-	-	-	-	-
74	Spigot equal tees 250mm ND x 250mm ND	no		45.00	-		-	-	-	-	-
75	Spigot equal tees 315mm ND x 315mm ND	no		55.00	-		-	-	-	-	-
76	Spigot equal tees 355mm ND x 355mm ND	no		65.00	-		-	-	-	-	-
77	Electrofusion reducer tees 180mm ND x 125mm ND	no		30.00	-		-	-	-	-	-
78	Electrofusion reducer tees 200mm ND x 125mm ND	no		40.00	-		-	-	-	-	-
79	Electrofusion reducer tees 200mm ND x 180mm ND	no		40.00	-		-	-	-	-	-
80	Electrofusion reducer tees 250mm ND x 125mm ND	no		45.00	-		-	-	-	-	-
81	Electrofusion reducer tees 250mm ND x 180mm ND	no		45.00	-		-	-	-	-	-
82	Electrofusion reducer tees 280mm ND x 125mm ND	no		45.00	-		-	-	-	-	-
83	Electrofusion reducer tees 315mm ND x 250mm ND	no		55.00	-		-	-	-	-	-
84	Spigot reducer tees 125mm ND x 63mm ND	no		30.00	-		-	-	-	-	-
85	Spigot reducer tees 180mm ND x 63mm ND	no	3	30.00	90.00		-	-	-	-	-
86	Spigot reducer tees 180mm ND x 125mm ND	no	27	30.00	810.00		-	-	-	-	-
87	Spigot reducer tees 250mm ND x 63mm ND	no		45.00	-		-	-	-	-	-
88	Spigot reducer tees 250mm ND x 125mm ND	no	1	45.00	45.00		-	-	-	-	-
89	Spigot reducer tees 250mm ND x 180mm ND	no	3	45.00	135.00		-	-	-	-	-
90	Spigot reducer tees 315mm ND x 125mm ND	no		55.00	-		-	-	-	-	-
91	Spigot reducer tees 355mm ND x 125mm ND	no		65.00	-		-	-	-	-	-
92	Spigot reducer tees 355mm ND x 180mm ND	no		65.00	-		-	-	-	-	-
93	Invert level tees for washout 125mm ND x 125mm ND	no	8	30.00	240.00	1.00	30.00	-	-	1.00	30.00
94	Invert level tees for washout 180mm ND x 125mm ND	no	47	30.00	1,410.00		-	-	-	-	-
95	Invert level tees for washout 180mm ND x 150mm ND	no	2	30.00	60.00		-	-	-	-	-
96	Invert level tees for washout 250mm ND x 125mm ND	no	3	45.00	135.00		-	-	-	-	-
97	Invert level tees for washout 250mm ND x 180mm ND	no	1	45.00	45.00		-	-	-	-	-
98	Invert level tees for washout 315mm ND x 125mm ND	no		55.00	-		-	-	-	-	-
99	Branch saddle stackload 125mm ND x 63mm ND	no		30.00	-		-	-	-	-	-
100	Branch saddle stackload 180mm ND x 63mm ND	no	5	30.00	150.00		-	-	-	-	-
101	Branch saddle stackload 250mm ND x 63mm ND	no		45.00	-		-	-	-	-	-
102	Branch saddle stackload 315mm ND x 63mm ND	no		55.00	-		-	-	-	-	-
103	Puddle Collar 125mm ND	no	1	30.00	30.00		-	-	-	-	-
104	Puddle Collar 180mm ND	no	12	30.00	360.00		-	-	-	-	-
105	Puddle Collar 250mm ND	no	1	45.00	45.00		-	-	-	-	-
106	Puddle Collar 315mm ND	no		55.00	-		-	-	-	-	-

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BILLS OF QUANTITY

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	AMOUNT		PREVIOUS CLAIM		CURRENT CLAIM		CUMMULATIVE	
				RATE (RM)	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)
107	Spigot reducer 180mm ND x 125mm ND	no	1	30.00	30.00		-	-	-	-	-
108	Spigot reducer 250mm ND x 180mm ND	no	1	45.00	45.00		-	-	-	-	-
109	Spigot reducer 280mm ND x 250mm ND	no		45.00	-		-	-	-	-	-
110	Spigot reducer 315mm ND x 250mm ND	no		55.00	-		-	-	-	-	-
111	Spigot reducer 355mm ND x 250mm ND	no		65.00	-		-	-	-	-	-
112	Spigot reducer 355mm ND x 315mm ND	no		65.00	-		-	-	-	-	-
113	Coupler 63mm ND	no	8	30.00	240.00		-	-	-	-	-
114	Coupler 125mm ND	no	208	30.00	6,240.00	2.00	60.00	-	-	2.00	60.00
115	Coupler 180mm ND	no	299	30.00	8,970.00		-	24.00	720.00	24.00	720.00
116	Coupler 225mm ND	no	4	40.00	160.00		-	-	-	-	-
117	Coupler 250mm ND	no	4	45.00	180.00		-	-	-	-	-
118	Coupler 315mm ND	no		55.00	-		-	-	-	-	-
119	Coupler 355mm ND	no		65.00	-		-	-	-	-	-
120	End cap 63mm ND	no	1	30.00	30.00		-	-	-	-	-
121	End cap 180mm ND	no	3	30.00	90.00		-	-	-	-	-
122	End cap 250mm ND	no		45.00	-		-	-	-	-	-
123	End cap 280mm ND	no		45.00	-		-	-	-	-	-
124	End cap 315mm ND	no		55.00	-		-	-	-	-	-
125	Straight pipe(uPVC) 100mm ND bellmouth pipes	m	60	20.00	1,200.00		-	-	-	-	-
126	Straight pipe (uPVC) 155mm ND bellmouth pipes	m	60	25.00	1,500.00		-	-	-	-	-
127	Straight pipe (uPVC) 200mm ND bellmouth pipes	m		32.00	-		-	-	-	-	-
128	Plain & flange ended straight pipe 100mm ND x 1000mm long	no	26	50.00	1,300.00		-	-	-	-	-
129	Plain & flange ended straight pipe 150mm ND x 1000mm long	no	61	60.00	3,660.00		-	-	-	-	-
130	Plain & flange ended straight pipe 200mm ND x 1000mm long	no	11	70.00	770.00		-	-	-	-	-
131	Plain & flange ended straight pipe 250mm ND x 1000mm long	no		80.00	-		-	-	-	-	-
132	Plain & flange ended straight pipe 300mm ND x 1000mm long	no		90.00	-		-	-	-	-	-
133	Plain ended staright pipes 100mm ND x 1000mm long	no		50.00	-		-	-	-	-	-
134	Plain ended staright pipes 150mm ND x 1000mm long	no		60.00	-		-	-	-	-	-
135	Plain ended staright pipes 200mm ND x 1000mm long	no		70.00	-		-	-	-	-	-
136	Plain ended staright pipes 250mm ND x 1000mm long	no		80.00	-		-	-	-	-	-
137	Plain ended staright pipes 300mm ND x 1000mm long	no		90.00	-		-	-	-	-	-
138	Double flange ended straight pipe 50mm ND x 300mm long	no		50.00	-		-	-	-	-	-
139	Double flange ended straight pipe 100mm ND x 750mm long	no	1	50.00	50.00		-	-	-	-	-
140	Double flange ended straight pipe 100mm ND x 1000mm long	no	21	50.00	1,050.00		-	-	-	-	-
141	Double flange ended straight pipe 150mm ND x 1000mm long	no		60.00	-		-	-	-	-	-
142	Offtake Tee (Tapping) 150mm ND PE barrel x 50mm ND ended branch	no		60.00	-		-	-	-	-	-
143	Plain ended bends (underground) 100mm ND x up to 45 deg	no	18	50.00	900.00		-	-	-	-	-
144	ditto 90 deg	no		50.00	-		-	-	-	-	-
145	Plain ended bends (underground) 125mm ND x up to 45 deg	no		50.00	-		-	-	-	-	-
146	ditto 90 deg	no		50.00	-		-	-	-	-	-
147	Plain ended bends (underground) 150mm ND x up to 45 deg	no	90	60.00	5,400.00		-	-	-	-	-
148	ditto 90 deg	no		60.00	-		-	-	-	-	-
149	Plain ended bends (underground) 200mm ND x up to 45 deg	no	2	70.00	140.00		-	-	-	-	-
150	ditto 90 deg	no		70.00	-		-	-	-	-	-
151	Plain ended bends (underground) 250mm ND x up to 45 deg	no		80.00	-		-	-	-	-	-
152	ditto 90 deg	no		80.00	-		-	-	-	-	-
153	Plain ended bends (underground) 300mm ND x up to 45 deg	no		90.00	-		-	-	-	-	-
154	Reducer Plain Ended 200mm x 150mm	no		70.00	-		-	-	-	-	-
155	Plain ended tee 100mm ND x 100mm ND	no		50.00	-		-	-	-	-	-
156	Plain ended tee 150mm ND x 100mm ND	no		60.00	-		-	-	-	-	-
157	Plain ended tee 250mm ND x 100mm ND	no		80.00	-		-	-	-	-	-

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				RATE (RM)	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)
158	Straight pipe (MS Pipe) 100mm ND	m	14	24.00	336.00		-	-	-	-	-
159	Ditto coated & wrapped	m	36	24.00	864.00		-	-	-	-	-
160	Straight pipe (MS Pipe) 150mm ND	m	69	28.00	1,932.00		-	-	-	-	-
161	Ditto coated & wrapped	m	125	28.00	3,500.00		-	-	-	-	-
162	Straight pipe (MS Pipe) 200mm ND	m	6	36.00	216.00		-	-	-	-	-
163	Ditto coated & wrapped	m	1	36.00	36.00		-	-	-	-	-
164	Straight pipe (MS Pipe) 250mm ND	m		42.00	-		-	-	-	-	-
165	Ditto coated & wrapped	m		42.00	-		-	-	-	-	-
166	Straight pipe (MS Pipe) 300mm ND	m		52.00	-		-	-	-	-	-
167	Ditto coated & wrapped	m		52.00	-		-	-	-	-	-
168	Plain Ended Straight Pipe 100mm ND x 1000mm long	no		50.00	-		-	-	-	-	-
169	Plain Ended Straight Pipe 150mm ND x 1000mm long	no		60.00	-		-	-	-	-	-
170	Plain Ended Straight Pipe 200mm ND x 1000mm long	no		70.00	-		-	-	-	-	-
171	Plain Ended Straight Pipe 250mm ND x 1000mm long	no		80.00	-		-	-	-	-	-
172	Plain ended bend 100mm ND x 45 deg	no	14	50.00	700.00		-	-	-	-	-
173	Ditto coated & wrapped	no		50.00	-		-	-	-	-	-
174	Plain ended bend 150mm ND x 45 deg	no	98	60.00	5,880.00		-	-	-	-	-
175	Ditto coated & wrapped	no		60.00	-		-	-	-	-	-
176	Plain ended bend 200mm ND x 45 deg	no	2	70.00	140.00		-	-	-	-	-
177	Ditto coated & wrapped	no		70.00	-		-	-	-	-	-
178	Plain ended bend 250mm ND x 45 deg	no		80.00	-		-	-	-	-	-
179	Ditto coated & wrapped	no		80.00	-		-	-	-	-	-
180	Plain ended bend 300mm ND x 45 deg	no		90.00	-		-	-	-	-	-
181	Ditto coated & wrapped	no		90.00	-		-	-	-	-	-
182	Air valve tee 100mm ND x 50mm ND	no	13	50.00	650.00		-	-	-	-	-
183	Air valve tee 150mm ND x 50mm ND	no	44	60.00	2,640.00		-	-	-	-	-
184	Air valve tee 200mm ND x 50mm ND	no	1	70.00	70.00		-	-	-	-	-
185	Air valve tee 250mm ND x 50mm ND	no		80.00	-		-	-	-	-	-
186	Air valve tee 300mm ND x 50mm ND	no		90.00	-		-	-	-	-	-
187	MS collar 100mm ND	no	62	20.00	1,240.00		-	-	-	-	-
188	ditto for 150mm ND	no	502	30.00	15,060.00		-	-	-	-	-
189	ditto for 200mm ND	no	9	40.00	360.00		-	-	-	-	-
190	ditto for 250mm ND	no		50.00	-		-	-	-	-	-
191	ditto for 300mm ND	no		60.00	-		-	-	-	-	-
192	Flange adaptor joint 100mm ND	no	7	50.00	350.00		-	-	-	-	-
193	Ditto 150mm ND	no	7	60.00	420.00		-	-	-	-	-
194	Ditto 200mm ND	no		70.00	-		-	-	-	-	-
195	Ditto 250mm ND	no	1	80.00	80.00		-	-	-	-	-
196	HDPE Flange adaptor joint 100mm ND	no		50.00	-		-	-	-	-	-
197	Ditto 150mm ND	no		60.00	-		-	-	-	-	-
198	Ditto 200mm ND	no		70.00	-		-	-	-	-	-
199	Ditto 250mm ND	no		80.00	-		-	-	-	-	-
200	Dresser joint 100mm ND	no		50.00	-		-	-	-	-	-
201	Ditto 150mm ND	no		60.00	-		-	-	-	-	-
202	Ditto 200mm ND	no		70.00	-		-	-	-	-	-
203	Ditto 250mm ND	no		80.00	-		-	-	-	-	-
204	Ditto 300mm ND	no		90.00	-		-	-	-	-	-
205	Detachable joint 100mm ND	no	12	50.00	600.00		-	-	-	-	-
206	Ditto 150mm ND	no	19	60.00	1,140.00		-	-	-	-	-
207	Ditto 200mm ND	no	3	70.00	210.00		-	-	-	-	-
208	Ditto 250mm ND	no		80.00	-		-	-	-	-	-
209	Ditto 300mm ND	no		90.00	-		-	-	-	-	-
210	Universal Coupling 150mm ND	no		60.00	-		-	-	-	-	-
211	Ditto 200mm ND	no		70.00	-		-	-	-	-	-
212	Ditto 250mm ND	no		80.00	-		-	-	-	-	-
213	Variable adaptor joint 100mm ND	no	14	50.00	700.00		-	-	-	-	-
214	Ditto 150mm ND	no	14	60.00	840.00		-	-	-	-	-
215	Blank flange 100mm ND	no	4	35.00	140.00		-	-	-	-	-
216	Ditto 150mm ND	no	3	40.00	120.00		-	-	-	-	-
217	Ditto 200mm ND	no		50.00	-		-	-	-	-	-
218	Ditto 250mm ND	no		60.00	-		-	-	-	-	-
219	Tiger Fitt 250mm ND	no	6	80.00	480.00		-	-	-	-	-
220	Flange Joint 50mm ND	no		40.00	-		-	-	-	-	-
221	Flange Joint 100mm ND	no		40.00	-		-	-	-	-	-
222	Flange Joint 150mm ND	no		50.00	-		-	-	-	-	-
223	Connection to existing pipe 63mm ND	no	2	1,500.00	3,000.00		-	-	-	-	-
224	Ditto 100mm ND	no	16	1,750.00	28,000.00		-	-	-	-	-
225	Ditto 125mm ND	no		1,750.00	-		-	-	-	-	-
226	Ditto 150mm ND	no	30	1,750.00	52,500.00		-	-	-	-	-
227	Ditto 200mm ND	no	9	2,000.00	18,000.00		-	-	-	-	-
228	Ditto 225mm ND	no	3	2,000.00	6,000.00		-	-	-	-	-

**PROGRAM PENGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI
DAN MERSING (PAKEJ 2) ("WORKS") - PTN 11
BILLS OF QUANTITY**

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	AMOUNT		PREVIOUS CLAIM		CURRENT CLAIM		CUMMULATIVE	
				RATE (RM)	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)
229	Ditto 250mm ND	no	1	2,250.00	2,250.00		-	-	-	-	-
230	Ditto 300mm ND	no		2,500.00	-		-	-	-	-	-
231	HDPE shut off valve c/w cap top 63mm ND	no		80.00	-		-	-	-	-	-
232	HDPE shut off valve c/w cap top 125mm ND	no	107	100.00	10,700.00		-	-	-	-	-
233	HDPE shut off valve c/w cap top 180mm ND	no	77	100.00	7,700.00		-	-	-	-	-
234	HDPE shut off valve c/w cap top 200mm ND	no		150.00	-		-	-	-	-	-
235	HDPE shut off valve c/w cap top 250mm ND	no	2	150.00	300.00		-	-	-	-	-
236	EO for spindle extension	no	2	100.00	200.00		-	-	-	-	-
237	HDPE Ball valve c/w cap top 63mm ND	no	1	80.00	80.00		-	-	-	-	-
238	HDPE pressure tapping value 125mm ND x 63mm	no	7	100.00	700.00		-	-	-	-	-
239	HDPE pressure tapping value 180mm ND x 63mm	no	7	100.00	700.00		-	-	-	-	-
240	Sluice valve 50mm ND	no		80.00	-		-	-	-	-	-
241	100mm ND ditto	no	7	80.00	560.00		-	-	-	-	-
242	150mm ND ditto	no	7	90.00	630.00		-	-	-	-	-
243	200mm ND ditto	no	1	140.00	140.00		-	-	-	-	-
244	250mm ND ditto	no		150.00	-		-	-	-	-	-
245	300mm ND ditto	no		200.00	-		-	-	-	-	-
246	Air valve 50mm ND	no	70	100.00	7,000.00		-	-	-	-	-
247	Air valve 80mm ND	no		100.00	-		-	-	-	-	-
248	Hydrant 100mm Dia	no	19	200.00	3,800.00		-	-	-	-	-
251	Hydrant 100mm Dia 90 deg D.I duckfoot bend	no	19	100.00	1,900.00		-	-	-	-	-
249	PRV 150mm ND	no		8,000.00	-		-	-	-	-	-
250	PRV 200mm ND	no		10,000.00	-		-	-	-	-	-
252	Precast chamber 605mm x 530mm small chamber	Set	163	235.00	38,305.00		-	-	-	-	-
253	EO for middle section	no	646	65.00	41,990.00		-	-	-	-	-
254	Precast chamber 840mm x 760mm big chamber	Set	1	300.00	300.00		-	-	-	-	-
255	EO for middle section	no	4	85.00	340.00		-	-	-	-	-
256	DI heavy duty chamber 320mm Dia x 440mm x 609mm (H) small chamber	Set	36	500.00	18,000.00		-	-	-	-	-
257	EO for extension ring	no	152	280.00	42,560.00		-	-	-	-	-
258	500mm x 500mm x 150mm (H) metal surface box	Set		1,200.00	-		-	-	-	-	-
259	Air valve metal support	Set		400.00	-		-	-	-	-	-
260	Brickwork Chamber 1250mm x1100mm	Set		3,000.00	-		-	-	-	-	-
261	Brickwork Chamber 1400mm x1200mm	Set		4,000.00	-		-	-	-	-	-
262	Surface Box	Set	1	500.00	500.00		-	-	-	-	-
263	Air Valve support	set	1	50.00	50.00		-	-	-	-	-
264	Blinding G15 50mm thk	sq.m	1	25.00	25.00		-	-	-	-	-
265	Mass concrete G20 thrust block etc	cu.m	11	250.00	2,750.00		-	-	-	-	-
266	Reinforeced concrete G25 in footing, column, thrust block	cu.m	2	280.00	560.00		-	-	-	-	-
267	Supply pipeline / marker post	no	163	70.00	11,410.00		-	-	-	-	-
268	Tapping point (HDPE) New main pipe 63mm ND x 25mm	no		155.00	-		-	-	-	-	-
269	Tapping point (HDPE) New main pipe 125mm ND x 25mm	no	133	155.00	20,615.00		-	-	-	-	-
270	Tapping point (HDPE) New main pipe 180mm ND x 25mm	no	445	155.00	68,975.00		-	50.00	7,750.00	50.00	7,750.00
271	Tapping point (HDPE) New main pipe 225mm ND x 25mm	no	217	155.00	33,635.00		-	-	-	-	-
272	Tapping point (HDPE) New main pipe 250mm ND x 25mm	no	30	155.00	4,650.00		-	-	-	-	-
273	Tapping point (HDPE) New main pipe 315mm ND x 25mm	no		155.00	-		-	-	-	-	-
274	Tapping point (HDPE) New main pipe 355mm ND x 25mm	no		155.00	-		-	-	-	-	-
275	Tapping point Type A (non HDPE) Existing main pipe 100mm ND x 25mm	no	200	170.00	34,000.00		-	-	-	-	-
276	Tapping point Type A (non HDPE) Existing main pipe 150mm ND x 25mm	no	50	170.00	8,500.00		-	-	-	-	-
277	Tapping point Type A (non HDPE) Existing main pipe 150mm ND x 25mm x 2nos	set		340.00	-		-	-	-	-	-
278	Tapping point Type A (non HDPE) Existing main pipe 200mm ND x 25mm	no		170.00	-		-	-	-	-	-

PROGRAM PENGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING (PAKEJ 2) ("WORKS") - PTN 11
BILLS OF QUANTITY

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	AMOUNT		PREVIOUS CLAIM		CURRENT CLAIM		CUMMULATIVE	
				RATE (RM)	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)
279	Tapping point Type A (non HDPE) Existing main pipe 250mm ND x 25mm	no		170.00	-		-	-	-	-	-
280	Tapping point Type A (non HDPE) Existing main pipe 300mm ND x 25mm	no		170.00	-		-	-	-	-	-
281	Tapping point Type B (non HDPE) Existing main pipe 100mm ND x 25mm	no	1094	170.00	185,980.00		-	-	-	-	-
282	Tapping point Type B (non HDPE) Existing main pipe 150mm ND x 25mm	no	1471	170.00	250,070.00		-	-	-	-	-
283	Tapping point Type B (non HDPE) Existing main pipe 150mm ND x 25mm x 2nos	Set		340.00	-		-	-	-	-	-
284	Tapping point Type B (non HDPE) Existing main pipe 155mm ND x 25mm	no		170.00	-		-	-	-	-	-
285	Tapping point Type B (non HDPE) Existing main pipe 200mm ND x 25mm	no	185	170.00	31,450.00		-	-	-	-	-
286	Tapping point Type B (non HDPE) Existing main pipe 250mm ND x 25mm	no		170.00	-		-	-	-	-	-
287	Tapping point Type B (non HDPE) Existing main pipe 300mm ND x 25mm	no		170.00	-		-	-	-	-	-
288	EO for works under pavement & others road finishing	no	2500	85.00	212,500.00		-	-	-	-	-
289	Communication pipe (HDPE) 25mm ND PE pipe (PN20)	m	39681	4.00	158,724.00		-	239.50	958.00	239.50	958.00
290	Communication pipe (HDPE) 32mm ND PE pipe (PN20)	m	200	4.00	800.00		-	-	-	-	-
291	Communication pipe (HDPE) 50mm ND PE pipe (PN20)	m	200	7.00	1,400.00		-	-	-	-	-
292	Communication pipe (HDPE) 63mm ND PE pipe (PN16)	m	57	7.00	399.00		-	-	-	-	-
293	EO for OC under pavement & others road finishing	m	2500	24.50	61,250.00		-	-	-	-	-
294	Trenchless method 25mm ND PE pipe	m	12842	37.70	484,143.40		-	-	-	-	-
295	Trenchless method 32mm ND PE pipe	m		45.00	-		-	-	-	-	-
296	Trenchless method 50mm ND PE pipe	m		55.00	-		-	-	-	-	-
297	Trenchless method 63mm ND PE pipe	m	6	65.00	390.00		-	-	-	-	-
298	SS (SS 304) meter stand 20mm ND pipe	no	3802	85.00	323,170.00		-	-	-	-	-
299	SS (SS 304) meter stand 25mm ND pipe	no	5	85.00	425.00		-	-	-	-	-
300	SS (SS 304) meter stand 40mm ND pipe	no	5	100.00	500.00		-	-	-	-	-
301	SS (SS 304) meter stand 50mm ND pipe	no	20	100.00	2,000.00		-	-	-	-	-
302	SS (SS 304) 2 tier meter stand	no		120.00	-		-	-	-	-	-
303	SS (SS 304) 3 tier meter stand	no	15	210.00	3,150.00		-	-	-	-	-
304	SS (SS 304) 4 tier meter stand	no	5	240.00	1,200.00		-	-	-	-	-
305	SS (SS 304) 5 tier meter stand	no		300.00	-		-	-	-	-	-
306	SS (SS 304) 20mm ND pipe	m	14978	5.00	74,890.00		-	-	-	-	-
307	SS (SS 304) 50mm ND pipe	m	6	10.00	60.00		-	-	-	-	-
308	Hot tapping 280mm Dia HDPE x 125mm	no		4,000.00	-		-	-	-	-	-
309	Hot tapping 100mm Dia DI Pipe x 125mm	no		4,000.00	-		-	-	-	-	-
310	Hot tapping 150mm Dia DI Pipe x 125mm	no		4,000.00	-		-	-	-	-	-
311	Hot tapping 300mm Dia DI Pipe x 180mm	no		4,800.00	-		-	-	-	-	-
312	Hot tapping 375mm Dia MS Pipe x 150mm	no		3,200.00	-		-	-	-	-	-
313	Precast concrete piles Mob	no	6	2,200.00	13,200.00		-	-	-	-	-
314	150mm x 150mm x 6m RC pile incl. pile shoe	no	24	230.00	5,520.00		-	-	-	-	-
315	150mm x 150mm x 6m RC pile	no	48	220.00	10,560.00		-	-	-	-	-
316	Haul, handle, pitch & drive	m	432	15.00	6,480.00		-	-	-	-	-
317	Supply, jointing end plate	no	48	50.00	2,400.00		-	-	-	-	-
318	Cut off & strip 150mm RC pile	no	24	50.00	1,200.00		-	-	-	-	-
319	10mm thk Linatex Rubber padding	no	12	400.00	4,800.00		-	-	-	-	-
320	70mm x 6mm thk Galvanised MS trap	no	22	80.00	1,760.00		-	-	-	-	-
321	Dynamic pile test	no	6	1,700.00	10,200.00		-	-	-	-	-
322	Twin column saddle support - Mob	no	1	2,500.00	2,500.00		-	-	-	-	-
323	Twin column saddle support - RC Footing	no	6	498.00	2,988.00		-	-	-	-	-
324	Twin column saddle support - RC Column	m	48	66.00	3,168.00		-	-	-	-	-
325	Twin column saddle support - RC Pier Support	no	6	142.00	852.00		-	-	-	-	-
326	Twin column saddle support - 10mm Thk Linatex	m	6	400.00	2,400.00		-	-	-	-	-
327	Twin column saddle support - Galvanised MS Strap	no	6	92.50	555.00		-	-	-	-	-
328	Bakau piles 100mm Dia	m	72	7.60	547.20		-	-	-	-	-
329	80mm Dia uPVC pipe class D Mob	no	10	1,850.00	18,500.00		-	-	-	-	-
330	80mm Dia x 6m long uPVC pipe	no	2234	159.50	356,323.00		-	-	-	-	-
331	Steel R6 reinforcement bar	m	13404	12.50	167,550.00		-	-	-	-	-
332	Haul, handle, pitch & drive	m	13404	10.30	138,061.20		-	-	-	-	-
333	Jointing uPVC pipe	no	474	28.00	13,272.00		-	-	-	-	-
334	Cut-off 80mm Dia uPVC pipe	no	1760	40.00	70,400.00		-	-	-	-	-

**PROGRAM PENGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI
DAN MERSING (PAKEJ 2) ("WORKS") - PTN 11
BILLS OF QUANTITY**

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	AMOUNT		PREVIOUS CLAIM		CURRENT CLAIM		CUMMULATIVE	
				RATE (RM)	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)	QTY	AMOUNT (RM)
335	Galvanised pipe bracing	no	1760	28.00	49,280.00		-	-	-	-	-
336	Allowing for cutting trees	no		350.00	-		-	-	-	-	-
337	Pipe Jacking - HDD Method Mob & Demob	no	7	2,500.00	17,500.00		-	-	-	-	-
338	Design - Jacking pit	no	7	2,500.00	17,500.00		-	-	-	-	-
339	Design - Receiving pit	no	7	2,500.00	17,500.00		-	-	-	-	-
340	EO for SI - Borehole 15m deep	no	14	2,000.00	28,000.00		-	-	-	-	-
341	125mm ND HDPE Pipe	m	300	230.00	69,000.00		-	-	-	-	-
342	180mm ND HDPE Pipe	m	550	230.00	126,500.00		-	-	-	-	-
343	250mm ND HDPE Pipe	m		320.00	-		-	-	-	-	-
344	355mm ND HDPE Pipe	m		400.00	-		-	-	-	-	-
345	Dismantle & remove Jacking pit	no	7	1,500.00	10,500.00		-	-	-	-	-
346	ditto Receiving pit	no	7	1,500.00	10,500.00		-	-	-	-	-
347	Supply & lay concrete apron	no	163	60.00	9,780.00		-	-	-	-	-
348	100mm uPVC Pipe	m	4	40.00	160.00		-	-	-	-	-
349	Supply, lay & compact gravel	cu.m	1	65.00	65.00		-	-	-	-	-
350	Supply & lay 225mm thk stone pitching	sq.m	163	60.00	9,780.00		-	-	-	-	-
351	Supply and lay Geotextile	sq.m	1530	5.00	7,650.00		-	-	-	-	-
352	Supply & lay 20mm thk granite chipping	sq.m		20.00	-		-	-	-	-	-
353	Strip external bitumen sheathing on pipework, clean	sq.m		10.00	-		-	-	-	-	-
354	Supply and lay Geonet	sq.m	100	7.00	700.00		-	-	-	-	-
355	Water pressure testing & creep testing for 63mm ND	m	3000	1.40	4,200.00		-	-	-	-	-
356	ditto for 125mm ND	m	7620	1.40	10,668.00		-	-	-	-	-
357	ditto for 155mm ND	m		1.50	-		-	-	-	-	-
358	ditto for 180mm ND	m	30525	2.30	70,207.50		-	-	-	-	-
359	ditto for 250mm ND	m	300	2.30	690.00		-	-	-	-	-
360	ditto for 315mm ND	m		2.30	-		-	-	-	-	-
361	ditto for 355mm ND	m		3.00	-		-	-	-	-	-
362	Sterling & flushing for 63mm ND	m	3000	1.40	4,200.00		-	-	-	-	-
363	Ditto 125mm ND	m	7620	1.40	10,668.00		-	-	-	-	-
364	ditto for 155mm ND	m		1.50	-		-	-	-	-	-
365	Ditto for 180mm ND	m	30525	2.30	70,207.50		-	-	-	-	-
366	Ditto for 250mm ND	m	300	2.30	690.00		-	-	-	-	-
367	ditto for 315mm ND	m		2.30	-		-	-	-	-	-
368	Ditto for 355mm ND	m		3.00	-		-	-	-	-	-
369	Water leakage test for 63mm ND	m	3000	1.40	4,200.00		-	-	-	-	-
370	Ditto for 125mm ND	m	7620	1.40	10,668.00		-	-	-	-	-
371	ditto for 155mm ND	m		1.50	-		-	-	-	-	-
372	Ditto for 180mm ND	m	30525	2.30	70,207.50		-	-	-	-	-
373	Ditto for 250mm ND	m	300	2.30	690.00		-	-	-	-	-
374	ditto for 315mm ND	m		2.30	-		-	-	-	-	-
375	Ditto for 355mm ND	m		3.00	-		-	-	-	-	-
376	Water leakage test for replacement tapping	no	3000	26.50	79,500.00		-	-	-	-	-
377	EO for make good leaking or pipe burst	no	26	350.00	9,100.00		-	-	-	-	-
378	Field Density Test (FDT)	no	10	150.00	1,500.00		-	-	-	-	-
379	California Bearing Ratio (CBR) laboratory	no	10	200.00	2,000.00		-	-	-	-	-
380	Coring in metalled road	no	5	250.00	1,250.00		-	-	-	-	-
381	10mm thk Linatex	no		400.00	-		-	-	-	-	-
382	Work beyond normal workly hours 125mm ND pipe	m		18.00	-		-	-	-	-	-
383	Work beyond normal workly hours 155mm ND pipe	m		20.00	-		-	-	-	-	-
384	Work beyond normal workly hours 180mm ND pipe	m		22.00	-		-	-	-	-	-
385	Work beyond normal workly hours 250mm ND pipe	m	210	26.00	5,460.00		-	-	-	-	-
386	Work beyond normal workly hours 355mm ND pipe	m		40.00	-		-	-	-	-	-
387	Dismantle of existing pipe/pillar	LS	7	2,000.00	14,000.00		-	-	-	-	-
388	Deduction on salvage value	LS	7	(2,000.00)	(14,000.00)		-	-	-	-	-
	TOTAL				8,229,120.30		29,746.32		343,735.34		373,481.66

PROGRAM PENGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING (PAKEJ 2) ("WORKS") - PTN11
SUMMARY OF WORK (OVERALL)

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	SECTIONS (QTY)							TOTAL CLAIM
				PTN11 : PN22	PTN11 : PN23	PTN11 : PN37	PTN11 : PN48	PTN11 : PN50	PTN11 : PN56	PTN11 : PN62	
				JLN B. PAHAT KIRI	PT. MASTAR	JLN B. PAHAT KANAN	PT. MARKOM	PT. YASIN	PT. SAYANG	JERAM BATU	
1	Site Clearance	sq.m	620	338.20				4,633.70	97.40		5,069.30
2	Bulk excavation	cu.m	30								-
3	EO for exc. in rock	cu.m	1								-
4	Prepare, spread & compact exc mtl's item PTN10.2 to fill ground to levels	cu.m	3								-
5	Trench exc - 63mm ND & below ne 1.8m	m	3000								-
6	Trench exc - 125mm ND & below ne 1.8m	m	8414	666.00					77.40		743.40
7	Trench exc - 180mm ND & below ne 1.8m	m	30218	824.90				3,623.60			4,448.50
8	Trench exc - 200mm ND & below ne 1.8m	m									-
9	Trench exc - 250mm ND & below ne 1.8m	m	593								-
10	Trench exc - 315mm ND & below ne 1.8m	m									-
11	Trench exc - 355mm ND & below ne 1.8m	m									-
12	EO for road cutting	m	11167					94.00			94.00
13	Ditto - exc in tracks, gravel and earth road	sq.m	28	26.59				216.52			243.11
14	Ditto - exc in concrete kerb	sq.m									-
15	Ditto - cross hedges, fences, signboard & wall	sq.m	10								-
16	Ditto - cross under water courses & earth drain	sq.m	42					0.54			0.54
17	Ditto - cross under concrete drains & culvert	sq.m	15								-
18	Ditto - exc in high water level	sq.m	1630	475.36				1,470.79	24.84		1,970.99
19	Ditto - exc in rock	cu.m	1								-
20	Remove unsuitable mtl's	cu.m	6	1.50				96.00			97.50
21	Incidental exc in all mlts	cu.m	105	0.56				14.34	1.20		16.10
22	EO for exc in rock	cu.m	6								-
23	Supply, fill & compact wash sand	cu.m	9475	313.40				897.13	14.16		1,224.69
24	Supply, fill & compact suitable imported mtl's	cu.m	75								-
25	Supply, spread & compact road verges with laterite earth to original thk or min of 150mm	sq.m	163								-
26	Supply fix PC slab G25 Pipe OD + 450 x 300(W) x 100 (H)	no	60					5.00			5.00
27	Supply, spread & compact crusher run 450mm thk	sq.m	8253	149.50				911.16			1,060.66
28	Supply & lay interlocking (Hexagon)	sq.m									-
29	Temporary Cold Mix metalled road	sq.m									-
30	Supply, spread & compact 70mm thk binder coarse	sq.m	5894								-
31	Supply spread & compact 50mm thk wearing coarse	sq.m	45630					33.90			33.90
32	Mill & resurfacing with wearing coarse 50mm thk	sq.m	8500								-
33	Road line marking / parking lot/ painting	lin.m	50								-
34	Single line 100mm width	lin.m	50								-
35	Double line 100mm width	lin.m	50								-
36	Supply & spread top soil 100m	sq.m	55								-
37	Spot turf	sq.m	30								-
38	Close turf	sq.m	25								-
39	HDPE PE100 Pipes 63mm ND	m	3000								-
40	HDPE PE100 Pipes 125mm ND	m	7615	666.00					77.00		743.00
41	HDPE PE100 Pipes 180mm ND	m	30425	824.90				3,622.00			4,446.90
42	HDPE PE100 Pipes 250mm ND	m	300								-
43	HDPE PE100 Pipes 315mm ND	m									-
44	HDPE PE100 Pipes 355mm ND	m									-
45	Stub end 63mm ND	no	1								-
46	Stub end 125mm ND	no	27						1.00		1.00
47	Stub end 180mm ND	no	82	1.00				2.00			3.00
48	Stub end 250mm ND	no	6								-
49	Stub end 315mm ND	no									-
50	Stub end 355mm ND	no									-
51	Electrofusion 45 deg 63mm ND	no									-
52	Electrofusion 45 deg 125mm ND	no	4								-
53	Electrofusion 45 deg 180mm ND	no	8								-
54	Electrofusion 45 deg 250mm ND	no	1								-
55	Electrofusion 45 deg 315mm ND	no									-
56	Electrofusion 45 deg 355mm ND	no									-
57	Spigot 45 deg 63mm ND	no									-
58	Spigot 45 deg 125mm ND	no	8								-
59	Spigot 45 deg 180mm ND	no	14					4.00			4.00
60	Spigot 45 deg 250mm ND	no	1								-
61	Spigot 45 deg 315mm ND	no									-
62	Spigot 45 deg 355mm ND	no									-
63	Electrofusion 90 deg 125mm ND	no	5								-
64	Electrofusion 90 deg 180mm ND	no	2								-
65	Electrofusion 90 deg 250mm ND	no	1								-
66	Electrofusion 90 deg 315mm ND	no									-
67	Spigot 90 deg 125mm ND	no	1								-
68	Spigot 90 deg 180mm ND	no	1								-
69	Spigot 90 deg 250mm ND	no	1								-
70	Spigot 90 deg 315mm ND	no									-
71	Spigot 90 deg 355mm ND	no									-
72	Spigot equal tees 125mm ND x 125mm ND	no	9						1.00		1.00
73	Spigot equal tees 180mm ND x 180mm ND	no	17								-
74	Spigot equal tees 250mm ND x 250mm ND	no									-
75	Spigot equal tees 315mm ND x 315mm ND	no									-
76	Spigot equal tees 355mm ND x 355mm ND	no									-
77	Electrofusion reducer tees 180mm ND x 125mm ND	no									-
78	Electrofusion reducer tees 200mm ND x 125mm ND	no									-
79	Electrofusion reducer tees 200mm ND x 180mm ND	no									-

PROGRAM PENGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING (PAKEJ 2) ("WORKS") - PTN11
SUMMARY OF WORK (OVERALL)

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	SECTIONS (QTY)							TOTAL CLAIM
				PTN11 : PN22	PTN11 : PN23	PTN11 : PN37	PTN11 : PN48	PTN11 : PN50	PTN11 : PN56	PTN11 : PN62	
				JLN B. PAHAT KIRI	PT. MASTAR	JLN B. PAHAT KANAN	PT. MARKOM	PT. YASIN	PT. SAYANG	JERAM BATU	
80	Electrofusion reducer tees 250mm ND x 125mm ND	no									-
81	Electrofusion reducer tees 250mm ND x 180mm ND	no									-
82	Electrofusion reducer tees 280mm ND x 125mm ND	no									-
83	Electrofusion reducer tees 315mm ND x 250mm ND	no									-
84	Spigot reducer tees 125mm ND x 63mm ND	no									-
85	Spigot reducer tees 180mm ND x 63mm ND	no	3								-
86	Spigot reducer tees 180mm ND x 125mm ND	no	27								-
87	Spigot reducer tees 250mm ND x 63mm ND	no									-
88	Spigot reducer tees 250mm ND x 125mm ND	no	1								-
89	Spigot reducer tees 250mm ND x 180mm ND	no	3								-
90	Spigot reducer tees 315mm ND x 125mm ND	no									-
91	Spigot reducer tees 355mm ND x 125mm ND	no									-
92	Spigot reducer tees 355mm ND x 180mm ND	no									-
93	Invert level tees for washout 125mm ND x 125mm ND	no	8						1.00		1.00
94	Invert level tees for washout 180mm ND x 125mm ND	no	47								-
95	Invert level tees for washout 180mm ND x 150mm ND	no	2								-
96	Invert level tees for washout 250mm ND x 125mm ND	no	3								-
97	Invert level tees for washout 250mm ND x 180mm ND	no	1								-
98	Invert level tees for washout 315mm ND x 125mm ND	no									-
99	Branch saddle stackload 125mm ND x 63mm ND	no									-
100	Branch saddle stackload 180mm ND x 63mm ND	no	5								-
101	Branch saddle stackload 250mm ND x 63mm ND	no									-
102	Branch saddle stackload 315mm ND x 63mm ND	no									-
103	Puddle Collar 125mm ND	no	1								-
104	Puddle Collar 180mm ND	no	12								-
105	Puddle Collar 250mm ND	no	1								-
106	Puddle Collar 315mm ND	no									-
107	Spigot reducer 180mm ND x 125mm ND	no	1								-
108	Spigot reducer 250mm ND x 180mm ND	no	1								-
109	Spigot reducer 280mm ND x 250mm ND	no									-
110	Spigot reducer 315mm ND x 250mm ND	no									-
111	Spigot reducer 355mm ND x 250mm ND	no									-
112	Spigot reducer 355mm ND x 315mm ND	no									-
113	Coupler 63mm ND	no	8								-
114	Coupler 125mm ND	no	208						2.00		2.00
115	Coupler 180mm ND	no	299	1.00				23.00			24.00
116	Coupler 225mm ND	no	4								-
117	Coupler 250mm ND	no	4								-
118	Coupler 315mm ND	no									-
119	Coupler 355mm ND	no									-
120	End cap 63mm ND	no	1								-
121	End cap 180mm ND	no	3								-
122	End cap 250mm ND	no									-
123	End cap 280mm ND	no									-
124	End cap 315mm ND	no									-
125	Straight pipe(uPVC) 100mm ND bellmouth pipes	m	60								-
126	Straight pipe (uPVC) 155mm ND bellmouth pipes	m	60								-
127	Straight pipe (uPVC) 200mm ND bellmouth pipes	m									-
128	Plain & flange ended straight pipe 100mm ND x 1000mm long	no	26								-
129	Plain & flange ended straight pipe 150mm ND x 1000mm long	no	61								-
130	Plain & flange ended straight pipe 200mm ND x 1000mm long	no	11								-
131	Plain & flange ended straight pipe 250mm ND x 1000mm long	no									-
132	Plain & flange ended straight pipe 300mm ND x 1000mm long	no									-
133	Plain ended staright pipes 100mm ND x 1000mm long	no									-
134	Plain ended staright pipes 150mm ND x 1000mm long	no									-
135	Plain ended staright pipes 200mm ND x 1000mm long	no									-
136	Plain ended staright pipes 250mm ND x 1000mm long	no									-
137	Plain ended staright pipes 300mm ND x 1000mm long	no									-
138	Double flange ended straight pipe 50mm ND x 300mm long	no									-
139	Double flange ended straight pipe 100mm ND x 750mm long	no	1								-

PROGRAM PENGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING (PAKEJ 2) ("WORKS") - PTN11
SUMMARY OF WORK (OVERALL)

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	SECTIONS (QTY)							TOTAL CLAIM
				PTN11 : PN22	PTN11 : PN23	PTN11 : PN37	PTN11 : PN48	PTN11 : PN50	PTN11 : PN56	PTN11 : PN62	
				JLN B. PAHAT KIRI	PT. MASTAR	JLN B. PAHAT KANAN	PT. MARKOM	PT. YASIN	PT. SAYANG	JERAM BATU	
140	Double flange ended straight pipe 100mm ND x 1000mm long	no	21								-
141	Double flange ended straight pipe 150mm ND x 1000mm long	no									-
142	Offtake Tee (Tapping) 150mm ND PE barrel x 50mm ND ended branch	no									-
143	Plain ended bends (underground) 100mm ND x up to 45 deg	no	18								-
144	ditto 90 deg	no									-
145	Plain ended bends (underground) 125mm ND x up to 45 deg	no									-
146	ditto 90 deg	no									-
147	Plain ended bends (underground) 150mm ND x up to 45 deg	no	90								-
148	ditto 90 deg	no									-
149	Plain ended bends (underground) 200mm ND x up to 45 deg	no	2								-
150	ditto 90 deg	no									-
151	Plain ended bends (underground) 250mm ND x up to 45 deg	no									-
152	ditto 90 deg	no									-
153	Plain ended bends (underground) 300mm ND x up to 45 deg	no									-
154	Reducer Plain Ended 200mm x 150mm	no									-
155	Plain ended tee 100mm ND x 100mm ND	no									-
156	Plain ended tee 150mm ND x 100mm ND	no									-
157	Plain ended tee 250mm ND x 100mm ND	no									-
158	Straight pipe (MS Pipe) 100mm ND	m	14								-
159	Ditto coated & wrapped	m	36								-
160	Straight pipe (MS Pipe) 150mm ND	m	69								-
161	Ditto coated & wrapped	m	125								-
162	Straight pipe (MS Pipe) 200mm ND	m	6								-
163	Ditto coated & wrapped	m	1								-
164	Straight pipe (MS Pipe) 250mm ND	m									-
165	Ditto coated & wrapped	m									-
166	Straight pipe (MS Pipe) 300mm ND	m									-
167	Ditto coated & wrapped	m									-
168	Plain Ended Straight Pipe 100mm ND x 1000mm long	no									-
169	Plain Ended Straight Pipe 150mm ND x 1000mm long	no									-
170	Plain Ended Straight Pipe 200mm ND x 1000mm long	no									-
171	Plain Ended Straight Pipe 250mm ND x 1000mm long	no									-
172	Plain ended bend 100mm ND x 45 deg	no	14								-
173	Ditto coated & wrapped	no									-
174	Plain ended bend 150mm ND x 45 deg	no	98								-
175	Ditto coated & wrapped	no									-
176	Plain ended bend 200mm ND x 45 deg	no	2								-
177	Ditto coated & wrapped	no									-
178	Plain ended bend 250mm ND x 45 deg	no									-
179	Ditto coated & wrapped	no									-
180	Plain ended bend 300mm ND x 45 deg	no									-
181	Ditto coated & wrapped	no									-
182	Air valve tee 100mm ND x 50mm ND	no	13								-
183	Air valve tee 150mm ND x 50mm ND	no	44								-
184	Air valve tee 200mm ND x 50mm ND	no	1								-
185	Air valve tee 250mm ND x 50mm ND	no									-
186	Air valve tee 300mm ND x 50mm ND	no									-
187	MS collar 100mm ND	no	62								-
188	ditto for 150mm ND	no	502								-
189	ditto for 200mm ND	no	9								-
190	ditto for 250mm ND	no									-
191	ditto for 300mm ND	no									-
192	Flange adaptor joint 100mm ND	no	7								-
193	Ditto 150mm ND	no	7								-
194	Ditto 200mm ND	no									-
195	Ditto 250mm ND	no	1								-
196	HDPE Flange adaptor joint 100mm ND	no									-
197	Ditto 150mm ND	no									-
198	Ditto 200mm ND	no									-
199	Ditto 250mm ND	no									-
200	Dresser joint 100mm ND	no									-
201	Ditto 150mm ND	no									-
202	Ditto 200mm ND	no									-
203	Ditto 250mm ND	no									-
204	Ditto 300mm ND	no									-
205	Detachable joint 100mm ND	no	12								-
206	Ditto 150mm ND	no	19								-
207	Ditto 200mm ND	no	3								-
208	Ditto 250mm ND	no									-
209	Ditto 300mm ND	no									-
210	Universal Coupling 150mm ND	no									-
211	Ditto 200mm ND	no									-
212	Ditto 250mm ND	no									-
213	Variable adaptor joint 100mm ND	no	14								-
214	Ditto 150mm ND	no	14								-
215	Blank flange 100mm ND	no	4								-
216	Ditto 150mm ND	no	3								-

PROGRAM PENGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING (PAKEJ 2) ("WORKS") - PTN11
SUMMARY OF WORK (OVERALL)

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	SECTIONS (QTY)							TOTAL CLAIM
				PTN11 : PN22	PTN11 : PN23	PTN11 : PN37	PTN11 : PN48	PTN11 : PN50	PTN11 : PN56	PTN11 : PN62	
				JLN B. PAHAT KIRI	PT. MASTAR	JLN B. PAHAT KANAN	PT. MARKOM	PT. YASIN	PT. SAYANG	JERAM BATU	
217	Ditto 200mm ND	no									-
218	Ditto 250mm ND	no									-
219	Tiger Fitt 250mm ND	no	6								-
220	Flange Joint 50mm ND	no									-
221	Flange Joint 100mm ND	no									-
222	Flange Joint 150mm ND	no									-
223	Connection to existing pipe 63mm ND	no	2								-
224	Ditto 100mm ND	no	16								-
225	Ditto 125mm ND	no									-
226	Ditto 150mm ND	no	30								-
227	Ditto 200mm ND	no	9								-
228	Ditto 225mm ND	no	3								-
229	Ditto 250mm ND	no	1								-
230	Ditto 300mm ND	no									-
231	HDPE shut off valve c/w cap top 63mm ND	no									-
232	HDPE shut off valve c/w cap top 125mm ND	no	107								-
233	HDPE shut off valve c/w cap top 180mm ND	no	77								-
234	HDPE shut off valve c/w cap top 200mm ND	no									-
235	HDPE shut off valve c/w cap top 250mm ND	no	2								-
236	EO for spindle extension	no	2								-
237	HDPE Ball valve c/w cap top 63mm ND	no	1								-
238	HDPE pressure tapping value 125mm ND x 63mm	no	7								-
239	HDPE pressure tapping value 180mm ND x 63mm	no	7								-
240	Sluice valve 50mm ND	no									-
241	100mm ND ditto	no	7								-
242	150mm ND ditto	no	7								-
243	200mm ND ditto	no	1								-
244	250mm ND ditto	no									-
245	300mm ND ditto	no									-
246	Air valve 50mm ND	no	70								-
247	Air valve 80mm ND	no									-
248	Hydrant 100mm Dia	no	19								-
249	PRV 150mm ND	no	19								-
250	PRV 200mm ND	no									-
251	Hydrant 100mm Dia 90 deg D.I duckfoot bend	no									-
252	Precast chamber 605mm x 530mm small chamber	Set	163								-
253	EO for middle section	no	646								-
254	Precast chamber 840mm x 760mm big chamber	Set	1								-
255	EO for middle section	no	4								-
256	DI heavy duty chamber 320mm Dia x 440mm x 609mm (H) small chamber	Set	36								-
257	EO for extension ring	no	152								-
258	500mm x 500mm x 150mm (H) metal surface box	Set									-
259	Air valve metal support	Set									-
260	Brickwork Chamber 1250mm x1100mm	Set									-
261	Brickwork Chamber 1400mm x1200mm	Set									-
262	Surface Box	Set	1								-
263	Air Valve support	set	1								-
264	Blinding G15 50mm thk	sq.m	1								-
265	Mass concrete G20 thrust block etc	cu.m	11								-
266	Reinforeced concrete G25 in footing, column, thrust block	cu.m	2								-
267	Supply pipeline / marker post	no	163								-
268	Tapping point (HDPE) New main pipe 63mm ND x 25mm	no									-
269	Tapping point (HDPE) New main pipe 125mm ND x 25mm	no	133								-
270	Tapping point (HDPE) New main pipe 180mm ND x 25mm	no	445	3.00				47.00			50.00
271	Tapping point (HDPE) New main pipe 225mm ND x 25mm	no	217								-
272	Tapping point (HDPE) New main pipe 250mm ND x 25mm	no	30								-
273	Tapping point (HDPE) New main pipe 315mm ND x 25mm	no									-
274	Tapping point (HDPE) New main pipe 355mm ND x 25mm	no									-
275	Tapping point Type A (non HDPE) Existing main pipe 100mm ND x 25mm	no	200								-
276	Tapping point Type A (non HDPE) Existing main pipe 150mm ND x 25mm	no	50								-
277	Tapping point Type A (non HDPE) Existing main pipe 150mm ND x 25mm x 2nos	set									-
278	Tapping point Type A (non HDPE) Existing main pipe 200mm ND x 25mm	no									-
279	Tapping point Type A (non HDPE) Existing main pipe 250mm ND x 25mm	no									-
280	Tapping point Type A (non HDPE) Existing main pipe 300mm ND x 25mm	no									-
281	Tapping point Type B (non HDPE) Existing main pipe 100mm ND x 25mm	no	1094								-
282	Tapping point Type B (non HDPE) Existing main pipe 150mm ND x 25mm	no	1471								-
283	Tapping point Type B (non HDPE) Existing main pipe 150mm ND x 25mm x 2nos	Set									-

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SUMMARY OF WORK (OVERALL)

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	SECTIONS (QTY)							TOTAL CLAIM
				PTN11 : PN22	PTN11 : PN23	PTN11 : PN37	PTN11 : PN48	PTN11 : PN50	PTN11 : PN56	PTN11 : PN62	
				JLN B. PAHAT KIRI	PT. MASTAR	JLN B. PAHAT KANAN	PT. MARKOM	PT. YASIN	PT. SAYANG	JERAM BATU	
284	Tapping point Type B (non HDPE) Existing main pipe 155mm ND x 25mm	no									-
285	Tapping point Type B (non HDPE) Existing main pipe 200mm ND x 25mm	no	185								-
286	Tapping point Type B (non HDPE) Existing main pipe 250mm ND x 25mm	no									-
287	Tapping point Type B (non HDPE) Existing main pipe 300mm ND x 25mm	no									-
288	EO for works under pavement & others road finishing	no	2500								-
289	Communication pipe (HDPE) 25mm ND PE pipe (PN20)	m	39681	25.00				213.50			239.50
290	Communication pipe (HDPE) 32mm ND PE pipe (PN20)	m	200								
291	Communication pipe (HDPE) 50mm ND PE pipe (PN20)	m	200								-
292	Communication pipe (HDPE) 63mm ND PE pipe (PN16)	m	57								-
293	EO for OC under pavement & others road finishing	m	2500								-
294	Trenchless method 25mm ND PE pipe	m	12842								-
295	Trenchless method 32mm ND PE pipe	m									-
296	Trenchless method 50mm ND PE pipe	m									-
297	Trenchless method 63mm ND PE pipe	m	6								-
298	SS (SS 304) meter stand 20mm ND pipe	no	3802								-
299	SS (SS 304) meter stand 25mm ND pipe	no	5								-
300	SS (SS 304) meter stand 40mm ND pipe	no	5								-
301	SS (SS 304) meter stand 50mm ND pipe	no	20								-
302	SS (SS 304) 2 tier meter stand	no									-
303	SS (SS 304) 3 tier meter stand	no	15								-
304	SS (SS 304) 4 tier meter stand	no	5								-
305	SS (SS 304) 5 tier meter stand	no									-
306	SS (SS 304) 20mm ND pipe	m	14978								-
307	SS (SS 304) 50mm ND pipe	m	6								-
308	Hot tapping 280mm Dia HDPE x 125mm	no									-
309	Hot tapping 100mm Dia DI Pipe x 125mm	no									-
310	Hot tapping 150mm Dia DI Pipe x 125mm	no									-
311	Hot tapping 300mm Dia DI Pipe x 180mm	no									-
312	Hot tapping 375mm Dia MS Pipe x 150mm	no									-
313	Precast concrete piles Mob	no	6								-
314	150mm x 150mm x 6m RC pille incl. pile shoe	no	24								-
315	150mm x 150mm x 6m RC pile	no	48								-
316	Haul, handle, pitch & drive	m	432								-
317	Supply, jointing end plate	no	48								-
318	Cut off & strip 150mm RC pile	no	24								-
319	10mm thk Linatex Rubber padding	no	12								-
320	70mm x 6mm thk Galvanised MS trap	no	22								-
321	Dynamic pile test	no	6								-
322	Twin column saddle support - Mob	no	1								-
323	Twin column saddle support - RC Footing	no	6								-
324	Twin column saddle support - RC Column	m	48								-
325	Twin column saddle support - RC Pier Support	no	6								-
326	Twin column saddle support - 10mm Thk Linatex	m	6								-
327	Twin column saddle support - Galvanised MS Strap	no	6								-
328	Bakau piles 100mm Dia	m	72								-
329	80mm Dia uPVC pipe class D Mob	no	10								-
330	80mm Dia x 6m long uPVC pipe	no	2234								-
331	Steel R6 reinforcement bar	m	13404								-
332	Haul, handle, pitch & drive	m	13404								-
333	Jointing uPVC pipe	no	474								-
334	Cut-off 80mm Dia uPVC pipe	no	1760								-
335	Galvanised pipe bracing	no	1760								-
336	Allowing for cutting trees	no									-
337	Pipe Jacking - HDD Method Mob & Demob	no	7								-
338	Design - Jacking pit	no	7								-
339	Design - Receiving pit	no	7								-
340	EO for SI - Borehole 15m deep	no	14								-
341	125mm ND HDPE Pipe	m	300								-
342	180mm ND HDPE Pipe	m	550								-
343	250mm ND HDPE Pipe	m									-
344	355mm ND HDPE Pipe	m									-
345	Dismantle & remove Jacking pit	no	7								-
346	ditto Receiving pit	no	7								-
347	Supply & lay concrete apron	no	163								-
348	100mm uPVC Pipe	m	4								-
349	Supply, lay & compact gravel	cu.m	1								-
350	Supply & lay 225mm thk stone pitching	sq.m	163								-
351	Supply and lay Geotextile	sq.m	1530								-
352	Supply & lay 20mm thk granite chipping	sq.m									-
353	Strip external bitumen sheathing on pipework, clean	sq.m									-
354	Supply and lay Geonet	sq.m	100								-
355	Water pressure testing & creep testing for 63mm ND	m	3000								-
356	ditto for 125mm ND	m	7620								-
357	ditto for 155mm ND	m									-
358	ditto for 180mm ND	m	30525								-
359	ditto for 250mm ND	m	300								-
360	ditto for 315mm ND	m									-

PROGRAM PENGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING (PAKEJ 2) ("WORKS") - PTN11
SUMMARY OF WORK (OVERALL)

ITEM NO.	DESCRIPTION	UNIT	AS PER BQ	SECTIONS (QTY)							TOTAL CLAIM
				PTN11 : PN22	PTN11 : PN23	PTN11 : PN37	PTN11 : PN48	PTN11 : PN50	PTN11 : PN56	PTN11 : PN62	
				JLN B. PAHAT KIRI	PT. MASTAR	JLN B. PAHAT KANAN	PT. MARKOM	PT. YASIN	PT. SAYANG	JERAM BATU	
361	ditto for 355mm ND	m									-
362	Sterling & flushing for 63mm ND	m	3000								-
363	Ditto 125mm ND	m	7620								-
364	ditto for 155mm ND	m									-
365	Ditto for 180mm ND	m	30525								-
366	Ditto for 250mm ND	m	300								-
367	ditto for 315mm ND	m									-
368	Ditto for 355mm ND	m									-
369	Water leakage test for 63mm ND	m	3000								-
370	Ditto for 125mm ND	m	7620								-
371	ditto for 155mm ND	m									-
372	Ditto for 180mm ND	m	30525								-
373	Ditto for 250mm ND	m	300								-
374	ditto for 315mm ND	m									-
375	Ditto for 355mm ND	m									-
376	Water leakage test for replacement tapping	no	3000								-
377	EO for make good leaking or pipe burst	no	26								-
378	Field Density Test (FDT)	no	10								-
379	California Bearing Ratio (CBR) laboratory	no	10								-
380	Coring in metalled road	no	5								-
381	10mm thk Linatex	no									-
382	Work beyond normal workly hours 125mm ND pipe	m									-
383	Work beyond normal workly hours 155mm ND pipe	m									-
384	Work beyond normal workly hours 180mm ND pipe	m									-
385	Work beyond normal workly hours 250mm ND pipe	m	210								-
386	Work beyond normal workly hours 355mm ND pipe	m									-
387	Dismantle of existing pipe/pillar	LS	7								-
388	Deduction on salvage value	LS	7								-