

Our reference: 22 - 170821

Date: 28-06-2022

INVOICE NO. 170821

Nur Faiqah Binti Hood
c/o Garage 13 Pte Ltd
8 Kaki Bukit Ave 4
#03-46 Premier@KB
Singapore 415875

Registration No. **JSN1170**

We enclose our fee note for your kind attention, which remains payable irrespective of the outcome of this case.

S/No.	Description of Services Provided	Qty	Amount
1	Being vehicle damage assessment report, inspection, photographs, transport and miscellaneous.	1	\$ 1,111.00
Total amount			<u><u>\$ 1,111.00</u></u>

Please kindly cross all cheques made payable to " Impact Analysis Consulting Pte Ltd ".

We thank you in anticipation for your prompt payment.



L. L. Tan (Ms)
Principal Consultant

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c/o Garage 13 Pte Ltd
8 Kaki Bukit Ave 4
#03-46 Premier@KB
Singapore 415875

Dear Sirs

RE: Road Traffic Accident on 10/6/2022
Nur Faiqah Binti Hood

In accordance with your instructions received in this office on **14/6/2022**, we made arrangements to examine the vehicle on **14/6/2022** at above-mentioned address. The following data was recorded:

Vehicle details

Make	Perodua	Registration	JSN1170
Model	Bezza 1300 X (Auto)	Chassis	PM2B301S003082901
Colour	Maroon	Gearbox	Auto
Odometer	64478km	Paintwork	Good
Steering	In order	Brakes	In order
Condition	Good		

Tyre Depths

Front left	195/50R15	80% Maxxis
Front right	195/50R15	80% Maxxis
Rear left	195/50R15	80% Maxxis
Rear right	195/50R15	80% Maxxis

Impact Direction & Area of Damage:

Status	REPAIRABLE
Magnitude	Medium
Legal status	Unroadworthy

Following our examination of the accident damage, we have calculated repair times and method, which are detailed on page 2 & 3. We would recommend a sum of **\$16,000.00** and **16** working days for repair, which is sufficiently lower than the pre accident value to render the vehicle an economically and physically reliable proposition.

Subsidiaries of Impact Analysis:

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Section A: Damaged Parts Assessment

Part's Description	Qty	Condition As inspected	Repairer's Estimate	Our Adjustment
List Items :				
Front bumper	1	deformed	485.00	485.00
Front bumper side retainer @\$48.00	2	cracked	96.00	96.00
Front foglamp @\$215.00	2	broken	430.00	430.00
Front bumper reinforcement	1	bent	310.00	310.00
Engine under cover @\$58.00	2	torn	116.00	116.00
Center grille	1	broken	180.00	180.00
Center grille chrome garnish	1	missing	116.00	116.00
Center grille logo	1	necessary	48.00	48.00
Headlamp @\$490.00	2	broken	980.00	980.00
Bonnet	1	buckled	480.00	480.00
Wiper garnish side @\$21.00	2	deformed.torn	42.00	42.00
Brace panel	1	bent	65.00	65.00
Bonnet lock	1	bent	85.00	85.00
Bonnet hinge @\$45.00	2	twisted	90.00	90.00
Bonnet insulator	1	crumpled	112.00	112.00
Front fender @\$286.00	2	buckled	572.00	572.00
Front fender inner shield @\$89.00	2	torn	178.00	178.00
Front support panel top	1	bent	190.00	190.00
Front support panel side @\$68.00	2	bent	136.00	136.00
Front support panel lower	1	bent	175.00	175.00
Front support panel top garnish	1	deformed	98.00	98.00
Air con condenser	1	dented	580.00	580.00
Radiator	1	dented	592.00	592.00
Radiator fan assy	1	torn.malfunction	480.00	480.00
Radiator spare tank	1	deformed	58.00	58.00
Radiator mounting @\$16.20	2	bent	32.40	32.40
Radiator windshroud	1	torn	112.00	112.00
Horn	1	dented	55.00	55.00

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Wiper tank	1	deformed	78.00	78.00
Catalytic converter cover	1	deformed	60.00	60.00
Catalytic converter	1	dented	680.00	680.00
Boot lid	1	buckled	685.00	685.00
Boot lid emblem 'BEZZA'	1	necessary	42.00	42.00
Boot lid emblem 'VVTI'	1	necessary	38.00	38.00
Boot lid emblem 'X'	1	necessary	28.00	28.00
Boot lid outer chrome garnish	1	broken	132.00	132.00
Boot lid outer chrome garnish logo	1	necessary	35.00	35.00
Boot lid hinge @\$45.00	2	bent	90.00	90.00
Boot lid inner lock	1	bent	155.00	155.00
Boot lid inner trim board	1	deformed	186.00	186.00
Boot lid weatherstrip	1	deformed	142.00	142.00
Boot lid switch button	1	malfunction	65.00	65.00
Rear number plate lamp @\$24.00	2	refix	48.00	0.00
Rear bumper	1	deformed	465.00	465.00
Rear bumper side retainer @\$58.00	2	cracked	116.00	116.00
Rear bumper reflector @\$55.00	2	broken	110.00	110.00
Rear bumper lower lip	1	deformed	280.00	280.00
Tail lamp @\$325.00	2	broken	650.00	650.00
Tail lamp panel @\$188.50	2	distorted	377.00	377.00
Rear fender @\$690.00	2	buckled	1380.00	1380.00
Rear fender inner side trim @\$195.00	2	deformed.torn	390.00	390.00
Rear fender inner shield @\$78.60	2	refix	157.20	0.00
Rear end panel	1	distorted	345.00	345.00
Rear end panel top garnish	1	deformed	129.00	129.00
Rear floor panel	1	buckled	665.00	665.00
Rear floor panel top cover	1	crumpled	236.00	236.00
Rear floor panel sponge compartment	1	crumpled	282.00	282.00
Rear air vent lh	1	deformed.torn	38.00	38.00
Sub- Total cost			14977.60	14772.40
Percentage discount : 10%			1497.76	1477.24
Sub-Total costs for parts			13479.84	13295.16

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Special Nett Items:

Front bumper sensor	set	malfunction	200.00	200.00
Front number plate with casing	1	dented	50.00	50.00
Bonnet insulator clip	set	necessary	30.00	30.00
Front bumper clip	set	necessary	40.00	40.00
Front fender inner shield clip rh/lh	2 sets	necessary	60.00	60.00
Boot lid inner trim clip	set	necessary	30.00	30.00
Rear bumper clip	set	necessary	40.00	40.00
Rear fender side inner trim clip rh/lh	2 sets	necessary	60.00	60.00
Rear number plate with casing	1	dented	50.00	50.00
Rear bumper reverse sensor	set	malfunction	200.00	200.00
Rear windscreen sealant	1	necessary	60.00	60.00
Sub-Total costs for parts			820.00	820.00

Parts Repair

Front fender inner panel rh/lh - bent	2	repair.respray	0.00	0.00
Front door rh - dented	1	repair.respray	0.00	0.00
Sub- Total costs			0.00	0.00
Total costs for parts			14299.84	14115.16

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Section B: Labour Cost Calculation

	Hourly rate	Manhr. Req.	Total
To dismantle, replace, cut, weld, knock out dents to straighten accident parts as-mentioned on the 'Parts Repair' column inclusive of replacement parts.	\$ 45.00	56	\$ 2,520.00
Putty & Spray painting to adjacent panels. Job allowance. Paint / material.	Sub-contract work.		\$ 2,250.00
Apply rust proofing on the adjacent panels.	Sub-contract work.		\$ 100.00
Remove and replace front sensor	\$ 45.00	1.7	\$ 76.50
Remove / replace aircon condenser and refill aircon gas	\$ 45.00	3	\$ 135.00
Remove / refix radiator, top up coolant & conduct pressure test	\$ 45.00	2	\$ 90.00
Remove and refix rear windscreen (2 man-job)	\$ 45.00	3.5	\$ 157.50
Remove and refix upholstery and cushion seat to facilitate repair of rear floor panel & rear fender rh/lh	\$ 45.00	3	\$ 135.00
Transfer bootlid mechanism	\$ 45.00	1.7	\$ 76.50
Conduct water leak test for rear portion associated repair works	\$ 45.00	1	\$ 45.00
Specialist charges - Conduct rear chassis alignment	-	-	\$ 200.00
Remove and replace rear reverse sensor	\$ 45.00	1.7	\$ 76.50
Wiring / bulb checking (inclusive of re-focus / re-adjust on angle of light intensity.)	\$ 45.00	1.5	\$ 67.50
Total labour cost			\$ 5,929.50

Manhour rate and the number of manhours required for each repairing task are formulated based on individual workshop's operating cost and in-house@ IA Research Guidelines respectively.

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Section C: Summary Table of Total Repair Cost

Description		Cost
Damaged Parts Assessment (See section A)		\$14,115.16
Labour Cost Calculation (See section B)		\$5,929.50
Total cost		\$20,044.66
Lump Sum		\$4,008.93
Further discount	20%	
Total Repair Cost		\$16,000.00

We would recommend a sum of \$16,000.00 and 16 working days for repair.
No further items will be approved without our expressed written agreement. Any significant additional items will be subject to a supplementary report.



Mechanical Engineer, Accident Expert Witness, Licensed Appraiser (Automobile)
B.Eng. (Hons, NUS)
Diploma.Mechanical Engineering
NTC-2 Automovite Technology
Sr.MIES, Institution of Engineers, Singapore (#20100091)
MATAI, Maryland Association of Traffic Accident Investigators
IAARS, International Association of Accident Reconstruction Specialists
PMC of Singapore Business Advisors & Consultants Council
ACTA certified Trainer, Singapore
Enterprise Singapore - Recognised Certification for Management Consultants
IMI Professional Certificate In Vehicle Accident Damage Assessment (UK)







































































































































































