

**UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**  
International General Certificate of Secondary Education

**MARK SCHEME for the October/November 2011 question paper  
for the guidance of teachers**

**0417 INFORMATION AND COMMUNICATION  
TECHNOLOGY**

**0417/02**

Paper 2 (Practical Test A), maximum raw mark 80

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

- Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0417	02

Name

Candidate number

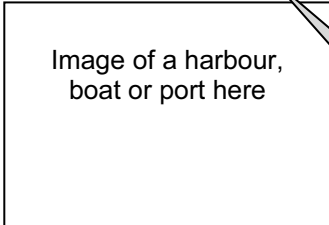
Centre number

# Developments at Port Peparad

Header  
 Name left cand no centre  
 Centre no right aligned 1 mark

Report by: a name

## An important regional port



The northern region of the country has a long coast line of over two thousand kilometres and has existing ports in

over forty locations. Many of these regional harbours are unsuited to the large container ships or bulk carriers of today. New harbours have been found for developing several new anchorages suitable to the massive ships required by today's transport needs. One such port is Port Peparad, situated on the south east coast. It has been developed for the export of goods to meet national and international, economical and environmentally friendly family transport.

Appropriate image found and placed correctly 1 mark  
 Resized correctly with aspect ratio maintained 1 mark  
 Text wrap set 1 mark

## The Waterfront

Port Peparad offers a total length of

Title 100%, 36pt serif, right aligned 2 marks  
 Subtitle 100%, 18pt serif, right aligned, italic and underlined 2 marks

When it comes to handling bulk and break-bulk cargo. It also offers extensive back-up infrastructure, including warehousing facilities, open stack yards, wharves and dedicated rail sidings.

Section break placed correctly continuous same page 1 mark

Port Peparad is well connected by road and rail to the rest of the country. It is directly connected by the broad gauge rail network of the National Railways. Port Peparad has set up a joint venture with the National Railways to improve its rail services, making it easier to transport goods to and from the port. The rail network has also been augmented with new scheduled services being provided to the new manufacturing plant.

New subhead text entered 100% OK 1 mark  
 Subheads identified +formatted, italic, 14pt sans-serif font 1 mark

## Development

Port Peparad, a successful enterprise, is emerging as a gateway port on the coast. It handles containers, bulk and liquid cargo. With less than ten hours steaming time from the region's largest city, Port Peparad provides excellent access to the main trade lines in the northern region. Its handling facilities are developed to manage the efficient transport of our new cars.

Body text 12 pt sans-serif, fully justified, single linespace consistently applied 2 marks  
 Two columns 2 cm gap 1 mark

Port Peparad is operated by one of the largest container terminal operators in the world. APM Terminals has operations spread over more than 50 terminals in 31 countries, on five continents. With a 54% stake, APM Terminals is the largest shareholder in Port Peparad.

Port Peparad has built an 11 km long four-way connecting the port to the National Highway. The Government has undertaken a project to construct a central spine road extending to Port Peparad.

Port Peparad has the most competitive rail freight rates coupled with excellent transit times as compared to other gateway ports on the West Coast. Port Peparad is now connected to its hinterland by the broad gauge rail network of the National Railways and is now connected by rail to all the major Inland container depots in the North West. The broad gauge rail connectivity project has been undertaken by Peparad Rail Corporation Limited (PRCL) promoted by Peparad Port Limited and the Ministry of Railways. Port Peparad has an equity stake of 38.8% in PRCL. The Port can handle incoming and

Footer  
 File name right  
 Date left 1 mark

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0417	02

Name

Candidate number

Centre number

outgoing trains simultaneously and the current capacity of the rail link is 22 trains per day. At present, the port is handling on an average 2 trains per day.

Port Peparad is the first port in this country to receive double stacked container trains (March 2006), which have a capacity of carrying 180TEUs as against 90TEUs carried in a single stack train. At present, the double stack container trains run to the inland railhead.

### *Oceanographic Conditions*

Port Peparad is protected by two islands, which act as a natural breakwater making the port safe in all weather conditions. The presence of these islands also leads to the tranquillity of the water in the harbour. It also ensures the wave height is less than 0.5m most of the time. Port Peparad has now increased the draft to 14.5 metres from 12.5 metres. The water currents are between 2.5 to 3 knots during peak tidal conditions.

These favourable oceanographic conditions at Port Peparad ensure easy and safe navigation of ships round the year. Thanks to the twin islands, Port Peparad can offer its services throughout the year, even during the monsoons, which provides an added advantage to its customers.

### *Storage Developments*

One of the unique features of Port Peparad is the availability of large tracts of land. This is attractive to several customers who wish to set up tank farms or warehouse facilities on site. A car storage facility is built here to hold cars while awaiting shipping. Cars are brought in by rail and loaded into containers in a newly developed container storage facility. This was developed in preparation for the launch of the new Micro range of cars which we believe will meet world-wide requirements for environmentally friendly personal transport that is easily afforded by families of modest incomes.

### *Car exports*

We have come through some difficult years for manufacturing and show here how our planned exports of cars were actually met through the recent years of world economic downturn. It will be seen that we came through that and are meeting export targets again as world trade has picked up.

Year	2007	2008	2009	2010
Planned	43000	50000	50000	55500
Actual	45500	39500	45500	56000

#### Table

Found and placed within column	1 mark
Cells merged	1 mark
Format top row text only to centred and underlined	1 mark
Outside border a thick line	1 mark
All borders visible	1 mark
Font matches body	1 mark

#### Page layout

A4 Portrait	1 mark
Margins all 1 cm	1 mark
No widows / orphans	1 mark
Consistent	1 mark
Document complete and paras intact	1 mark

<b>Page 4</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>IGCSE – October/November 2011</b>	<b>0417</b>	<b>02</b>

Name \_\_\_\_\_ Candidate number \_\_\_\_\_ Centre number \_\_\_\_\_

3/10/2011

New slide as first slide with title and subtitle layout 1 mark  
Text correct 1 mark

Port Pepard Docks

---

New dock for car exports

Review of car movements

Port Pepard Docks

---

Port Handling Facilities

- Container port
- Bulk fertilizers
- Bulk liquids

Import  
Five slides 1 mark

Port Pepard Docks

---

Port Infrastructure

- Warehousing facilities
- Open stack yards
- Weighbridges
- Dedicated rail sidings

Port Pepard Docks

---

Inland links

- Rail to regional distribution centres
- New highway constructed

Move slide Port Infrastructure to slide 3 1

Port Pepard Docks

---

New Car Terminal

- Rail head with RDC links
- Storage awaiting export
- Container loading

Port Pepard Docks

---

Car exports

- Exports hit by world trade downturn
- Now back to planned levels

Print  
Handout six slides 1 mark

Master slide  
All items created and appear on all slides 1 mark  
Correct image placed top left 1 mark  
Thick horizontal line across slide below image 1 mark

<b>Page 5</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>IGCSE – October/November 2011</b>	<b>0417</b>	<b>02</b>

Name

Candidate number

Centre number

Master slide  
Text Port Pepard Docks serif  
48 point black above line on right  
1 mark

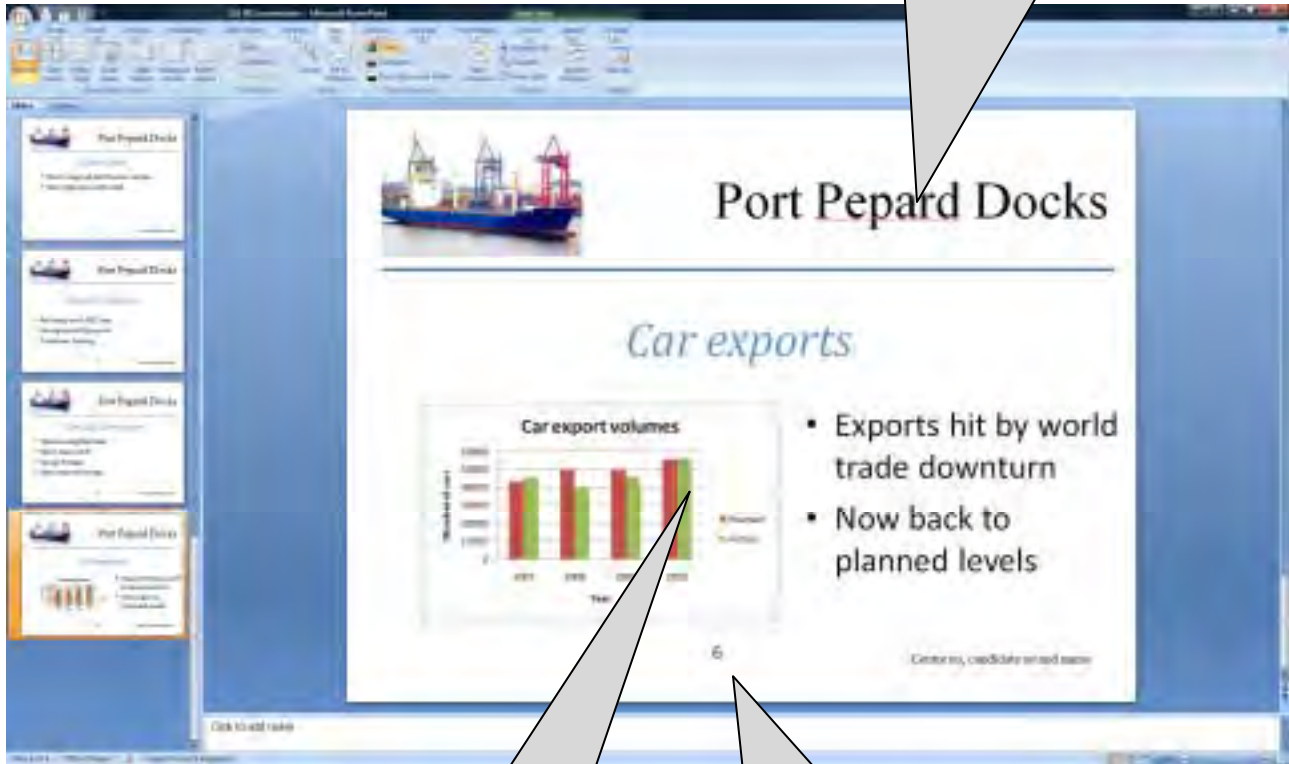


Chart as shown with both series identified 1 mark  
Vertical comparative bar chart 1 mark  
Chart titles created correctly with series labels displayed in full 1 mark  
Chart placed correctly 1 mark

Master slide  
Name bottom right 1 mark  
Slide number bottom centre 1 mark  
No overlaps any text/image any slide 1 mark

Print  
Single slide 1 mark

<b>Page 6</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>IGCSE – October/November 2011</b>	<b>0417</b>	<b>02</b>

Name \_\_\_\_\_ Candidate number \_\_\_\_\_ Centre number \_\_\_\_\_

# Dispatch manifest (port: Hamburg)

Calculated field and format currency euro +2dp 2 marks  
1 mark

Title – correct 1 mark

VIN	Model	Power	Engine Size	Cost Price	Colour	Port	Distributor	Delivered Price
375A15423015	MicroEco	E	N/A	€13,000.00	White	Hamburg	BMD AG	€13,300.00
375C15423001	Micro	G	600	€8,500.00	Blue	Hamburg	BMD AG	€8,800.00
375C15423011	MicroB	G	500	€7,500.00	Green	Hamburg	BMD AG	€7,800.00
375C15423020	MicroSE	H	900	€12,000.00	White	Hamburg	BMD AG	€12,300.00
376A15423007	Micro	G	600	€8,500.00	Blue	Hamburg	BMD AG	€8,800.00
376A15423009	MicroZed	D	1200	€11,000.00	Blue	Hamburg	BMD AG	€11,300.00
376A15423011	MicroSE	H	900	€12,000.00	Red	Hamburg	BMD AG	€12,300.00
376A15423015	MicroSE	H	900	€12,000.00	Silver	Hamburg	BMD AG	€12,300.00
376B15423009	MicroB	G	500	€7,500.00	Blue	Hamburg	BMD AG	€7,800.00
376B15423010	MicroEco	E	N/A	€13,000.00	Gold	Hamburg	BMD AG	€13,300.00
376C15423002	MicroZed	D	1200	€11,000.00	Blue	Hamburg	BMD AG	€11,300.00
376C15423010	MicroSE	H	900	€12,000.00	Red	Hamburg	BMD AG	€12,300.00
376C15423019	MicroB	G	500	€7,500.00	Silver	Hamburg	BMD AG	€7,800.00
377A15423007	MicroB	G	500	€7,500.00	White	Hamburg	BMD AG	€7,800.00
377A15423014	MicroEco	E	N/A	€13,000.00	Red	Hamburg	BMD AG	€13,300.00
377A15423016	Micro	G	600	€8,500.00	Green	Hamburg	BMD AG	€8,800.00
377A15423017	MicroSE	H	900	€12,000.00	Red	Hamburg	BMD AG	€12,300.00
377A15423019	MicroSE	H	900	€12,000.00	Silver	Hamburg	BMD AG	€12,300.00
377B15423002	MicroB	G	500	€7,500.00	Green	Hamburg	BMD AG	€7,800.00
377B15423011	MicroB	G	500	€7,500.00	Green	Hamburg	BMD AG	€7,800.00
377B15423013	MicroEco	E	N/A	€13,000.00	Green	Hamburg	BMD AG	€13,300.00
377C15423005	MicroB	G	500	€7,500.00	White	Hamburg	BMD AG	€7,800.00
377C15423010	Micro	G	600	€8,500.00	Red	Hamburg	BMD AG	€8,800.00
377C15423011	MicroZed	D	1200	€11,000.00	Blue	Hamburg	BMD AG	€11,300.00

Specified fields only and all data and labels visible as given 1 mark  
Page orientation is landscape 1 mark  
1 page wide 1 mark

Search Germany (Hamburg) 1 mark  
And Dispatched = No 1 mark

Name \_\_\_\_\_ Candidate number, centre number \_\_\_\_\_

Total cars for Germany 24

Records sorted on VIN 1 mark  
3 records added 3 marks

Count records 1 mark  
label 1 mark  
Candidate details on left 1 mark

<b>Page 7</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>IGCSE – October/November 2011</b>	<b>0417</b>	<b>02</b>

Name

Candidate number

Centre number

**Attention!**

Check charge voltage before delivery  
 VIN: 371C15423016  
 Model: MicroEco  
 Port: Vigo  
 Distributor: EMD SA  
 Name, centre no, cand no

**Attention!**

Check charge voltage before delivery  
 VIN: 372A15423009  
 Model: MicroEco  
 Port: Vigo  
 Distributor: EMD SA  
 Name, centre no, cand no

**Attention!**

Check charge voltage before delivery  
 VIN: 372B15423009  
 Model: MicroEco  
 Port: Vigo  
 Distributor: EMD SA  
 Name, centre no, cand no

**Attention!**

Check charge voltage before delivery  
 VIN: 372C15423019  
 Model: MicroEco  
 Port: Vigo  
 Distributor: EMD SA  
 Name, centre no, cand no

**Attention!**

Check charge voltage before delivery  
 VIN: 374A15423005  
 Model: MicroEco  
 Port: Vigo  
 Distributor: EMD SA  
 Name, centre no, cand no

**Attention!**

Check charge voltage before delivery  
 VIN: 374A15423012  
 Model: MicroEco  
 Port: Vigo  
 Distributor: EMD SA  
 Name, centre no, cand no

Record selection criteria  
 VIN starts 37  
 Country =Spain (Vigo)  
 Power = E (MicroEco) 3 marks  
 (eight records)  
 Labels 2 side by side 1 mark

**Attention!**

Check charge voltage before delivery  
 VIN: 376B15423016  
 Model: MicroEco  
 Port: Vigo  
 Distributor: EMD SA  
 Name, centre no, cand no

**Attention!**

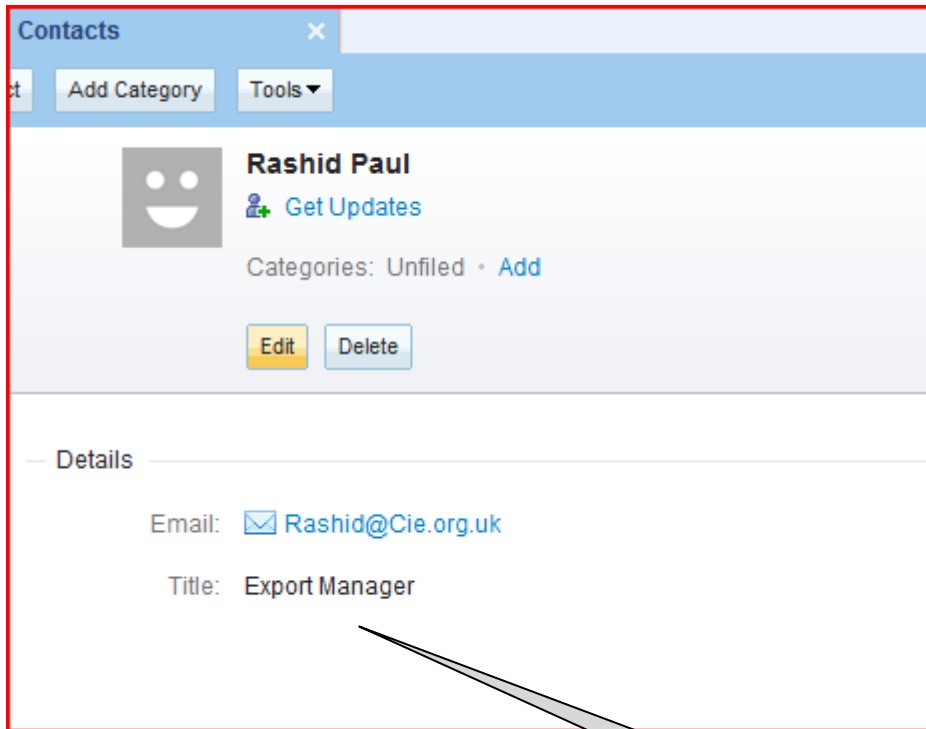
Check charge voltage before delivery  
 VIN: 377A15423010  
 Model: MicroEco  
 Port: Vigo  
 Distributor: EMD SA  
 Name, centre no, cand no

Heading text and format 2 marks  
 Field selection 2 marks  
 Field labels 1 mark  
 Own details 1 mark

<b>Page 8</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>IGCSE – October/November 2011</b>	<b>0417</b>	<b>02</b>

Name	Candidate number	Centre number
Candidate name		
Centre number		
Candidate number		

Step 2 Contact entry:



Add contact with job title2 marks  
 Rashid Paul  
[Rashid@cie.org.uk](mailto:Rashid@cie.org.uk)  
 Export Manager



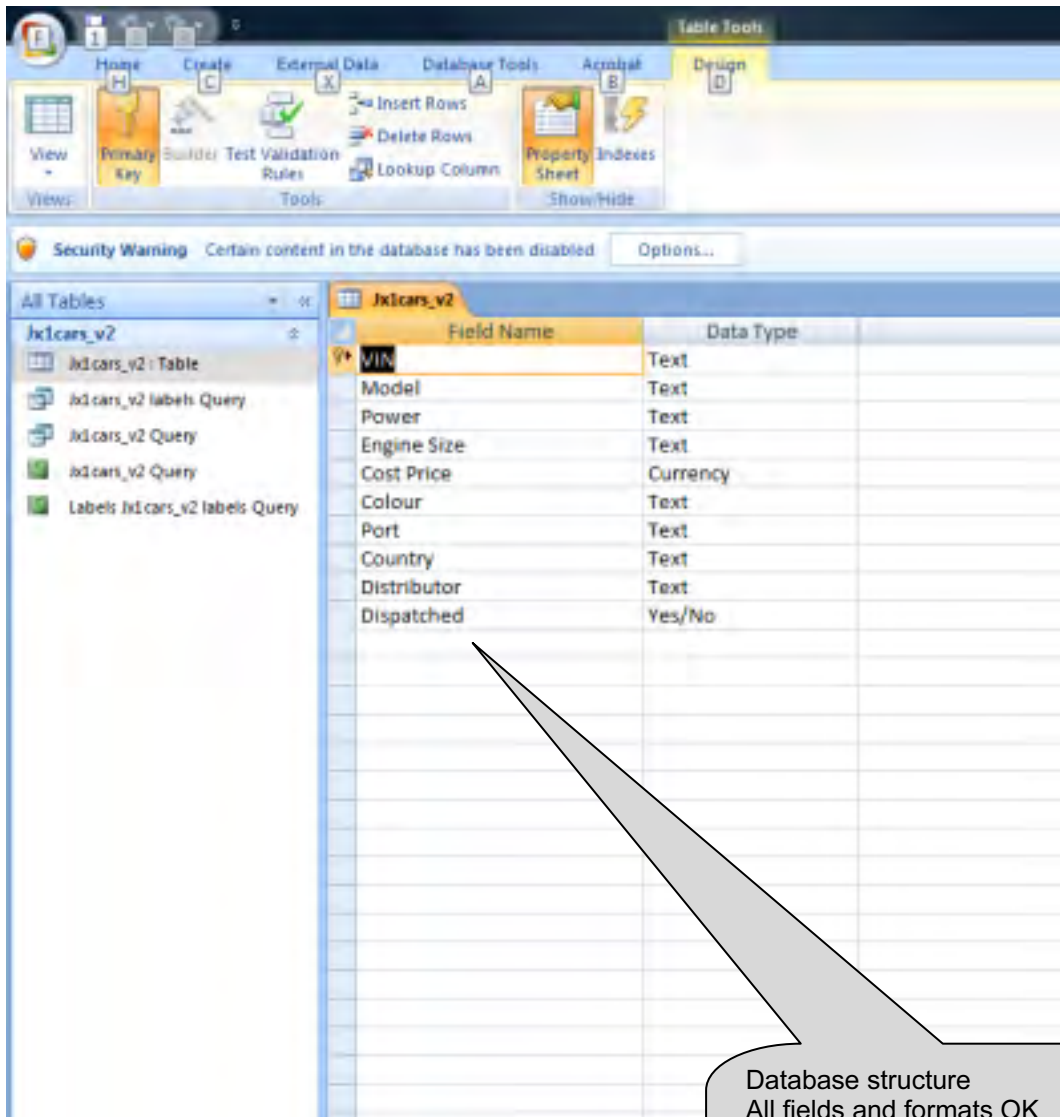
Page 9	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0417	02

Name

Candidate number

Centre number

Step 44 Database field structure screenshot here:



Database structure  
 All fields and formats OK  
 1 mark  
 Currency format for price field  
 with Euro symbol  
 1 mark  
 Dispatched as yes/no field  
 2 marks

<b>Page 10</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>IGCSE – October/November 2011</b>	<b>0417</b>	<b>02</b>

Name \_\_\_\_\_ Candidate number \_\_\_\_\_ Centre number \_\_\_\_\_

Step 53 Place a screenshot of the email showing attachment here:

The screenshot shows an email composition window with the following details:

- To:** design.h@cie.org.uk
- Cc:** Rashid Paul <Rashid@Cie.org.uk>;
- Subject:** Port facilities report

The email body contains the following text:

Candidate name  
 Candidate number  
 Centre number  
 You will find the draft report attached.

A callout box indicates the following marking criteria:

Correct addresses	2 marks
Correct subject and content	1 mark
Suitable attached file	1 mark

The attachment bar at the bottom shows:

- 1 File (290KB of 25MB)
- NX1PORT02JRXX.docx (289KB) [Remove](#)